

ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Notebooks and Tablets

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Lenovo	Logo			
Company name *	Lenovo				
Contact information *	formation * Lenovo Global Environmental Affairs				
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	alcarter@lenovo.com				
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Additional information	he latest version of this document can be found at: http://www.lenovo.com/ecodeclaration				

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.					
Type of product *	Notebook				
Commercial name *	Lenovo 300e Chromebook Gen 3 AMD				
Model number *	82J9; 82JA				
Issue date *	2021/04/30				
Intended market *	🛛 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products.

Model n	umber *	82J9; 82JA Logo					
lssue da	ite *	2021/04/30	Lend	JVC)		
	t enviror	mental attributes - Legal requirements	Require		t met		
Item			Yes	No	n.a.		
P1		ous substances and preparations					
P1.1*	Product	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\square				
P1.2*	Comme	s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	\boxtimes				
P1.3*	hydrobr trichlorc concent	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.					
P1.4*	Product terphen	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated yl (PCT) in preparations (see legal reference).	\boxtimes				
P1.5*	chain co	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).					
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.						
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail contact): www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	\boxtimes				
P2	Batterie	S					
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	\boxtimes				
P2.2*	Batterie referend	s or accumulators do not contain more than $0,0005\%$ of mercury or $0,002\%$ of cadmium. (See legate)	al 🔀				
P2.3*	Batterie	s and accumulators are readily removable. (See legal reference)	\square				
P3	Confor	nity verification & Eco design (ErP)					
P3.1*	The pro The De https://	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). claration of Conformity can be requested at (add link or e-mail address): www.lenovo.com/us/en/compliance/eu-doc for EU and www.lenovo.com/us/en/compliance/uk-doc for UK					
P3.2*	The pro	duct complies with the Eco design requirements for energy-related products, al reference).	\boxtimes				
	Require	d information is; given in item P15 or added to this document, available at (add URL):					
		www.lenovo.com/us/en/compliance/eco-declaration					
P5		t packaging					
P5.1*	hexaval	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium a ent chromium by weight of these together.					
P5.2*	used (s	kaging materials are marked with abbreviations and numbers indicating the nature of the material ee legal reference).					
P5.3*	(see lec	duct packaging material is free from ozone depleting substances as specified in the Montreal Protoc al reference). nt: Legal reference has no maximum concentration values.	ol 🔀				
P6		ent information					
P6.1*		ion for recyclers/treatment facilities is available (see legal reference).					

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model nu	umber *	82J9; 82JA	Logo	Lon		
Issue da	te *	2021/04/30		Len	ovc	D _{TM}
Product		mental attributes - Market requirements (See General NOTE GN	below)			
11		onmental conscious design		Require		
Item P7		tory to fill in. Additional information regarding each item may be found under P14. Disassembly, recycling		Yes	No	n.a.
P7.1*		at have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.			⊢⊢	⊢⊢
P7.3*		arts > 100 g consist of one material or of easily separable materials.			⊢⊢	<u> </u>
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			╞	++-
P7.5			╞	<u> </u>		
P7.6*	-	arts are free from metal inlays or have inlays that can be removed with commonly re easily separable. (This requirement does not apply to safety/regulatory labels).			<u> </u>	<u> </u>
17.0	Product					
P7.7*		ng can be done e.g. with processor, memory, cards or drives				
P7.8*		ng can be done using commonly available tools				⊢⊢
P7.9	10	arts are available after end of production for: 5 years				╶ ╎
P7.10		s available after end of production for: 5 years				<u> </u>
F7.10		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
	Material	type: plastics Material type: Materi	al type:			
P7.12	Insulatio	n materials of external electrical cables are PVC free.			\boxtimes	
P7.13	Insulatio	n materials of internal electrical cables are PVC free.			\boxtimes	
P7.14	External	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b	promine and 0,1	1% 🔀		
		1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flam chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine				
		in 25% post-consumer recycled content.	in parts containi	ng		
P7.15	Printed of	iricuit boards, PCBs (without components) are low halogen: all	are low halog	en	\square	
P7.16	Flame re	<pre>standed plastic parts > 25 g in covers / housings are marked according ISO 1043-4 >PC+ABS-TD15 FR(40),TPU-ARES<</pre>	:	\boxtimes		
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c	components):			
		PA (additive), TBBPA (reactive) (See NOTE B3), Other: Phenol, 4,4'-(1-		\boxtimes		
	methyle	thylidene)bis[2,6-dibromo-, polymer with 2-(chloromethyl)oxirane and 4,4'-(1	-	_	_	_
	methyle	thylidene)bis[phenol], CAS #: 26265-08-7		\boxtimes		
		nemical specifications of flame retardants in printed circuit boards (without compon	ients) > 25 g			
D7.40		g ISO 1043-4: FR(16)	(1		
P7.18		ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0.1%:	es/preparations			
		ical name: confidential, CAS #: confidential (See NOTE B4)				
	2. Chem	ical name: , CAS #: "				
	3. Chem	ical name: , CAS #: "				
	<u>Alt. 2: C</u> f TD15 FF	nemical specifications of flame retardants in plastic parts > 25 g according ISO 104 R(40),TPU-ARES<	13-4: >PC+ABS -	• 🖂		
P7.19	•	parts > 25 g, flame retardant substances/preparations above 0,1% are used whic	h have been		\boxtimes	
	0	I the following Risk phrases; and Hazard statements:				
			See note B5)			
P7.20*	Postcons	sumer recycled plastic material content is used in the product (See Note B6):		\bowtie		
	a) Oft apo	it least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material contener ercentage of total plastic by weight) is 4.19% .	nt (calculated as	6		
	or b) The	e weight of recycled material is 25.7 g.				

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	82J9; 82JA	Logo	Lenovo
Issue date *	2021/04/30		LEHOVO
Product environ	nental attributes - Market requirements (continued)		Requirement met

Item

Requirement metYesNon.a.

	Material and su	bstance requirements	(continued)		
P7.21*			d in the product (See N	OTE B7):	
	If YES: at least	one of the two alternativ	es below shall be answe	ered.	
	,			,	ated as a percentage of
		by weight) is %.	, P		
	or				
DT 001		of the biobased plastic			
P7.22*			. less than 0,1 mg/lamp.		
P8	Batteries	ed specify: Number of la	mps: and maxim	um mercury content p	er lamp: mg
P8.1*		I composition: Li-polyn	1er		
P9	,				
P9.1		nption (See NOTE B8)	els or energy consumption	one are reported:	
Energy mo	de *	Power level at	Power level at	Power level at	Reference/Standard for energy
Energy me		100 V AC	115 V AC	230 V AC	modes and test method *
Peak (On-	max)	45 W	45 W	45 W	Full load
Categor	<u>y 1</u>				
Short Idle	State - WOL	3.87 W	3.94 W	4.00 W	Use for ENERGY STAR V8
Enabled					registration
	04-4-14/01	0.0010/	0 (7))/	0.04104	· ·
Long Idle Enabled	State - WOL	2.26 W	2.17 W	2.21 W	Use for ENERGY STAR V8
Enabled					registration
Sleen (S3) - WOL Disabled	0.32 W	0.32 W	0.34 W	Use for ENERGY STAR V8
01eep (00)		0.02 W	0.52 W	0.04 W	registration
					<u> </u>
Off (S5) -	WOL Disabled	0.18 W	0.18 W	0.2 W	Use for ENERGY STAR V8
					registration
EPS No-lo	ad	0.036 W	0.04 W	0.08 W	
(External power	supply / charger plugged in t sconnected from the product	he			
TEC *	sconnected from the product	kWh/week	kWh/week	kWh/week	
	ergy Consumption				
PTEC *		W	W	W	
Typical En	ergy Consumption				
ETEC *		13.53 kWh/year	13.63 kWh/year	13.93 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$
Annual En	ergy Consumptior	ו			+ $P_{sleep} \times 0.35 + P_{long_{ldle}} \times 0.10+$
		R: Off Mode(S5) - M	OL Enabled: P : Sleen	Mode(S3) - WOL Enab	P _{short Idle} x 0.30) led; P _{idle} : Idle State - WOL Enabled
External D	ower Supply Effic		al Efficiency Marking Pro		
					4266*769
	solution * : 1.05 m				1366*768
	8,	save mode: 8.5 minutes			
P9.2*		0,	tion is provided with the	product.	
P9.3	Energy efficience	y class (monitors only):			
P10	Emissions				
			to ISO 9296 (See NOTE		
P10.1	Mode	Mode description			nit A-weighted sound power level, <i>L_{WA,c}</i> (B)
	Idle	* idle		* 2.6	
	Operation	* CPU Operating		* 2.5	
	Other mode	Declared A-weighted sou	nd pressure level (dB) L_{pAm}	17 (operator positi	on desktop – idle)
	Other mode		nd pressure level (dB) L_{pAm}		on desktop – operating)
	Measured accor	ding to: 🔀 ISO 7779 🕻			
		Other	(only if not covered by	ECMA-74)	

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nur	nber *	82J9; 82JA				Logo				
Issue date) *	2021/04/30					Lé	eno	VO.	*
Product	environn	nental attribu	ites - Market requirem	nents (con	ntinued)		Re	quire	ment	met
Item								Yes	No	n.a.
		nagnetic emis								
P10.4	program	(s): MPR-II(3 p	s the requirement for low f <i>in AC adapter only</i>)	requency e	lectromagnetic field	Is of the following volur	ntary			
P12	Ergonor	nics for comp	uting products							
P12.1*			ergonomic requirements of						\square	
P12.2*	The phys	sical input devi	ce meets the requirements	s of ISO 999	95 and ISO 9241-4	10.			\square	
P13		ng and docum								
P13.1*	Product	, packaging mate	erial type(s): <i>corrugated</i> erial type(s): <i>EPE</i> erial type(s): <i>LDPE+PE</i>	weight (kg weight (kg weight (kg	j): 0.033					
P13.2*	Product	plastic primary	packaging is free from PV	C.				\boxtimes		
P13.3*	For proc	luct primary co er recovered fib	prrugated fiberboard pack er content: 80 %	aging, spec	cify the contained	percentage of minimu	m post-			
P13.4*		nedia for user a ronic, 🔀 Paper	and product documentation, Other	n (tick box):						
P13.5	User and		his item if paper documen nentation on paper media							
	Element	hlorine-free al chlorine-free ed chlorine-free								
P14		ry programs	, 							
P14.1			requirements of the followi	ing voluntar	y program(s):					
	Eco-labe Eco-labe Eco-labe		Criteria version: 8.0 Criteria version: IEEE 16 Criteria version: Ver.13 Criteria version: NoteBo		Date: 2021/3/26 Date: 2021/5/18 Date: 2021/5/18 Date: 2021/5/18	Product category: 1 Product category: N Product category: N Product category: N	otebook			
P15			n (See NOTE B10)							
P9			of specific configuration							
	informati knowled	on contained ir ge available at here is approx	no representations, guara n this document. All inform the time of completion, an imate and provided for info	ation provid d supplier s	led by supplier in th hall have no obliga	is document is provide tion to update such info	ed based ormation.	on supp The inf	olier's format	ion
P9			ed Notebooks & Tablet Co ov/index.cfm?fuseaction=							

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

Lenovo ErP Lot3 Information Sheet - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	Lenovo 300e Chromebook Gen 3	Logo		
Model Number	82J9; 82JA		Lonovo	
Issue Date	2021/04/30		Lenovo	
Additional information				

d)	Year of manufacture:				2021	
e)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display.					
) Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) an enable						
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)	
	Memory over base [GB]	4				
ients sting	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capability adjustments applied during testing	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
ability a ied du	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capa appl	Discrete graphics Card(s) [number / #]	No #: NA (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	
	Category of discrete graphics Card(s)	NA				
esults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	8.15				
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled	8.15				
g)	Idle state power demand (Watts);		I		2.35	
ר)	Sleep mode power demand (Watts);				0.45	
)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);			
)	Off mode power demand (Watts);				0.30	
<)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);			
)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 %	% of rated output pow	er (if applicable):		
	10% 20% 50%	100% Avera	ige			
m)	External power supply efficiency (if appli	cable)*:				
	Average active efficiency: 45W:87,98%		: 89,41%,88,62%,88,	96%		
o)	*internal note: show values for all available external p Minimum number of loading cycles that t		and (applies only to n	otebook computers):	300 cycles	
p-1)	Measurement methodology used to dete	rmine information mer	tioned in points (I) – ii	nternal PSU efficiency		
p-2)	Measurement methodology used to dete	rmine information mer 53:2011 measuremen		external PSU efficiend	cy:	

(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: EN 61960 measurement methodology					
(p-4)		dology used to determine information mentioned in a Point P9.1 in the Product IT Eco Declaration: IEC 62623 / IEC EN50564:2011 measurement i				
(q)	Sequence of steps for	or achieving a stable condition with respect to power	demand::			
		IEC 62623 / IEC EN50564:2011 measurement I	nethodology			
(r)	Description of how s	leep and/or off mode was selected or programmed:				
	refer to power mar	agement, sleep mode: ACPI system level G1/S3 ACPI system level G2/S5 ('soft off') s				
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: refer to power management, 8.5mins automatically reaches sleep mode					
(†)		te condition before the computer automatically r				
(t) (u)	condition which does	s not exceed the applicable power demand requirem r a period of user inactivity in which the compute	ents for sleep mode (in minutes):	8.5		
(u)	mode that has a low	ver power demand requirement than sleep mode (ir	n minutes):	NA		
(v) (w)	<u> </u>	re the display sleep mode is set to activate after nergy-saving potential of power management functio	,	7.5		
(₩)	User informatio	on described in User Guide and Power Manager u programs				
(x)	User information on	how to enable the power management functionality:				
	User informatic	n described in User Guide and Power Manager נ programs	nder ThinkVantage menu in all			
(z)		measurements: — test voltage in V and frequency ir system, — information and documentation on the in sting:				
		230V, 50Hz, Total Harmonic Distortion	<2 %			
Additio	nal Notebook Batter	y Information:	-			
		Battery[ies] <u>not</u> user replaceable	Battery[ies] user replaceable	n/a		
		The battery[ies] in this product cannot be easily replaced by users themselves. ¹⁾				
Internal/	built-in Battery					
	/detachable Battery					
	ckup Battery					
Other:						
Addition	al information					
Akymynatoph Las baterías c /ýměnu bater Brugeren kan Der Akku/die Kasutajad ei s Η μπαταρία[-ε	ата[ите] батерия[и] в този п le este producto no pueden s ie/baterií v tomto výrobku by ikke uden videre udskifte bat Akkus dieses Produkts kan/ saa selle toote akut/akusid ise (] ото троїо́ν αυτό δεν μπορ	asily replaced by users themselves. pogykτ με може да се замени[ят] лесно от самите потребите er sustituidas fácilmente por los propios usuarios. neměli provádět sami uživatelé. teriet/batterierne i dette produkt. kônnen nicht ohne weiteres vom Benutzer selbst ausgetauscht v h hôlpsasti asendada. ούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες it ne peuvent être facilement remplacée(s) par les utilisateurs et	verden.			
Korisnik ne m .a batteria/le i .ietotāji paši r Šio gaminio b A termék akku I-batterija/bat Batteriet [ene] De batterij(en Jżytkownik ni 3ateria (bater Bateria (bater Bateriu(-ie) v f	ože lako zamijeniti Bateriju sa batterie in questo prodotto nc nevar nomainīt šā ražojuma a aterijos [bateriju] pats vartoto umulátorát/akkumulátorait a fe teriji f dan il-prodott ma tistax, i dette produktet kan ikke let j in dit product is (zijn) door d e može sam w łatwy sposób as deste produto não podem iile) din acest produs nu poat tomto výrobku nemôže vymie	am u ovom proizvodu. n può/possono essere facilmente sostituita/e dall'utente. kumulatoru(-us). jas negali lengvai pakeisti. elhasználó nem tudja egyedűl egyszerűen kicserélni. fjistgħux tiġil/jiġu sostitwita/i mill-utenti stess. t erstattes av brukerne selv. e gebruiker niet gemakkelijk vervangbaar. wymienić baterii w tym produkcie. ser facilmente substituídas pelos próprios utilizadores. e (pot) fi uşor înlocuită (înlocuite) de utilizatorii înşişi.	ix-memes.			
Tämän tuottee Det är inte enl	en akku [akut] ei[vät] ole help kelt för kunden att själv byta u	osti käyttäjän vaihdettavissa.				