

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	0		
Company name *	Lenovo				
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Additional information	The 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 YOGA C930-13/C930-13 Glass				
Model number *	81C4, 81EQ				
Issue date *	2018/8/2				
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 *	81C4, 81EQ Logo			
Issue da	ate *	2018/8/2	Leng		
Produc	t environ	mental attributes - Legal requirements	Require	ment	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*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	\boxtimes		
P1.3*	Product hydrobr trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- ethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum ration values.			
P1.4*	Product	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated /l (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*	Product	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ontaining at least 48% per mass of chlorine in the SCCP (see legal reference).	e 🔀		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.			
P1.7*	REACH				
P2	Batterie				
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)	\square		
P2.2*	Batterie referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal e)			
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 Dec	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/social_responsibility/us/en/ec_doc_notebooks/			
P3.2*	The pro	duct complies with the Eco design requirements for energy-related products, al reference).	\square		
	Require	d information is; given in item P15 or added to this document, available at (add URL): www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/			
P5	Produc	t packaging			
P5.1*	Packagi	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium an ent chromium by weight of these together.	d 🔀		
P5.2*		kaging materials are marked with abbreviations and numbers indicating the nature of the material(see legal reference).	5) 🔀		
	The pro Protoco	al 🔀			
P5.3*					
P5.3*	Comme	nt: Legal reference has no maximum concentration values.			

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 number *		81C4, 81EQ	Logo			
Issue dat	te *	2018/8/2		Len	ovo	тм
Product	t environ	mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design		Require	ment r	net
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7 P7.1*		Disassembly, recycling t have to be treated separately are easily separable				
					╞	<u> </u>
P7.2*		aterials in covers/housing have no surface coating.			<u> </u>	Ц.
P7.3*		arts > 100 g consist of one material or of easily separable materials.			<u> </u>	Ц_
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.				
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	available tools.			
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).		\square		
	Product					
P7.7*		g can be done e.g. with processor, memory, cards or drives				
P7.8*		g can be done using commonly available tools		\square		
P7.9		rts are available after end of production for: 5 years				
P7.10	Service is	s available after end of production for: 5 years				
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
P7.12		type: AL6063 Material type: Materia n materials of external electrical cables are PVC free.	al type:			
				<u> </u>		<u> </u>
P7.13		n materials of internal electrical cables are PVC free.				Ц.
P7.14	weight (' polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) g more than 25% post-consumer recycled content.	e retardants, a	nd		
P7.15	Printed of	circuit boards, PCBs (without components) are low halogen: all X PCBs > as defined in IEC 61249-2-21. (See 1NOTE B2)	25 g 🗌 are Io	ow 🔀		
P7.16	Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				\boxtimes
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c A (additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:	omponents):			\square
		nemical specifications of flame retardants in printed circuit boards (without compon- g ISO 1043-4:	ents) > 25 g			\boxtimes
P7.18	concentra 1. Chemi 2. Chemi	ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0,1%: cal name: , CAS #: (See NOTE B4) cal name: , CAS #: " cal name: , CAS #: "	es/preparations	in		
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104				
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which the following Risk phrases; and Hazard statements:	n have been			\bowtie
			See note B5)			
P7.20*	lfYES;a a) Oft	sumer recycled plastic material content is used in the product (See Note B6): t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conter ercentage of total plastic by weight) is <i>0</i> %.	it (calculated as	;		
	b) The	weight of recycled material is 0 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 nu	mber *	81C4, 81	EQ			Logo	
Issue date	e *	2018/8/2					Lenovo
Product	environr	nental at	tributes - Market r	requirements (conti	nued)	· · · · · · · · · · · · · · · · · · ·	Requirement met
Item				•	•		Yes No n.a.
	Material	and subs	tance requirements	(continued)			
P7.21*				d in the product (See N	OTE B7):		
	If YES: a	t least one	of the two alternativ	es below shall be answ	ered.		
	a) Of	total plasti	c parts' weight > 25 g		material content (calcula	ated as a percer	ntage
			the biobased plastic				
P7.22*				less than 0,1 mg/lamp		lonn, ma	
P8	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg Batteries						
P8.1*			omposition:				
P9			tion (See NOTE B8)				
P9.1				ls or energy consumpti	ons are reported:		
Energy mo			Power level at	Power level at	Power level at	Reference/Star	ndard for energy
5,			100 V AC	115 V AC	230 V AC	modes and test	
Peak (On-	max)		65 W	65 W	65 W	Full load	
Categor	<u>y</u>						
Short Idle	State - W	OL	4.52 W	4.49 W	4.56 W	Use for ENER	GY STAR V6
Enabled			4.02 11	4.40 W	4.00 W	registration (P	idle)
Long Idle Enabled	State - W	OL	1.77 W	1.79 W	1.97 W	Use for ENER registration (P	
Sleep (S3)	- WOL D	isabled	0.71 W	0.70 W	0.74 W	Reference	
Off (S5) -	WOL Enal	bled	NA W	NA W	NA W	Use for ENER registration(Pa	
Off (S5) -	WOL Disa	bled	0.41 W	0.42 W	0.42 W	Use for ErP	
EPS No-lo (External power wall outlet but dis	supply / charger	plugged in the the product.)	.145 W	W	W		
PTEC * Typical En	ergy Cons	umption	W	W	W		
ETEC * Annual En	ergy Cons	umption	16.50 kWh/year	16.43 kWh/year	16.90 kWh/year	$E_{TEC} = (8760/10)$ + $P_{sleep} \times 0.35$ - $P_{short_ldle} \times 0.30$	000) x (P _{off} x 0.25 + P _{long_ldle} x 0.10+
					Mode(S3) - WOL Enabled	; P _{idle} : Idle State	
External P	ower Supp	ly Efficien	cy Level (Internationa	al Efficiency Marking Pro	otocol) * :		
Display res	solution *	8.294 me	gapixels				
Default tim	e to enter	energy sa	ve mode: 30 minutes				Ē
P9.2*				ion is provided with the	product.		
P9.3			lass (monitors only):				
P10	Emissio		, ,,				
			Declared according t	o ISO 9296 (See NOTE	B9)		
P10.1	Mode		lode description			A-weighted sour	nd power level, <i>L_{WA,c}</i> (B)
	Idle	*	System Idle		* 2.6		<u> </u>
	Operatio		CPU Operating		* 2.6		—————— — —
	Other m			nd pressure level (dB) L_{pAn}	(operator posi	ition desktop – id	le)
	Other m	ode D	eclared A-weighted sour	nd pressure level (dB) L_{pAn}	(operator posi	ition desktop – op	·
	Measure		ig to: 🔀 ISO 7779 🗌 Other	ECMA-74 (only if not covered by			

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 http://www.ecma-international.org/publications/standards/Ecma-370.htm

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

Model nu	mber *	81C4, 81EQ					Logo				
Issue dat	te *	2018/8/2						Le	eno	VO	ж
Product	environ	nental attribute	es - Market require	ements (cor	ntinued)			Re	quire		met
Item									Yes	No	n.a.
		magnetic emissio									
P10.4	program	(s):	ne requirement for low	v frequency e	lectromagnetic field	s of the follo	owing volun	tary			
P12		mics for computi									
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.										
P12.2*	The phy	sical input device	meets the requireme	nts of ISO 999	95 and ISO 9241-41	0.				\boxtimes	
P13	Packag	ing and documer	ntation								
P13.1*	Product Product	packaging materia packaging materia packaging materia	al type(s): <i>paper</i> al type(s): <i>EPE</i>	weight (ko weight (ko weight (ko	g): 0.086						
P13.2*	Product	plastic primary pa	ckaging is free from F	PVC.					\times		
P13.3*		duct primary corru er recovered fiber	ugated fiberboard pa content: 80 %	ckaging, spec	cify the contained p	percentage	of minimur	n post-			
P13.4*		media for user and ronic, XPaper,	d product documentat Other	ion (tick box):	:						
P13.5	Úser an		item if paper docum ntation on paper med						\boxtimes		
	Totally o	hlorine-free							\square		
		al chlorine-free									
		ed chlorine-free									
P14		ry programs									
P14.1			quirements of the follo	wing voluntar	y program(s):						
	ENERG	Y STAR®	Criteria version:	7.0	Date: 2018/7/11	Product c	ategory: 11				
	Eco-labe	el:	Criteria version:		Date:	Product of					
	Eco-labe	કા:	Criteria version:		Date:	Product of	ategory:				
P15	Additio	nal information (See NOTE B10)								
P9	Energy	consumption of	specific configuration	on may vary;	description of the	tested pro	duct config	guration:			
	informat knowled	ion contained in the ge available at the here is approxim	representations, gua nis document. All infor e time of completion, a ate and provided for i	mation provid and supplier s	led by supplier in th shall have no obligat	is documen tion to upda	it is provideo ite such info	d based o rmation.	n supp The info	lier's ormati	on
P9			Notebooks & Tablet /index.cfm?fuseaction				code=CO				

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 YOGA C930-13/C930-13 Glass	Logo
Model Number	81C4, 81EQ	
Issue Date	2018/8/2	Lenovo
Additional information		

	Product environmental attributes									
(d)	Year of manufacture:									
(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.									
(f)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are 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]	16G								
lents 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 <i>a</i> lied du	Discrete Audio Card	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)					
cap	Discrete graphics Card(s) [number / #]	NO #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)					
	Category of discrete graphics Card(s)									
Test results	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	9.07								
Test r	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled									
(g)	Idle state power demand (Watts);				4.56					
(h)	Sleep mode power demand (Watts);				0.74					
(i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		NA					
(j)	Off mode power demand (Watts);				0.42					
(k)	Off mode with WOL enabled power dema	and (Watts) (where en	abled);		NA					
(I)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 %	% of rated output powe	er (if applicable):						
	10% 20% 50%	100% Avera	ige							
(m)	External power supply efficiency (if applied	cable)*:								
	Average active efficiency: 88.93%, 89.0	03%, 89.242%, 89.0	4%							
(0)	*internal note: show values for all available external po Minimum number of loading cycles that t		and (applies only to p	otobook computors):						
(0)				. ,	300					
(p-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency:									

	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies Eligibility Criteria (Version 2.0)							
(p-3) Mea	asurement method	ology used to determine information mentioned in p <i>≥</i> 70% of Cmin	oints (o) – loading cycles batteries:					
		ology used to determine information mentioned in m oint P9.1 in the Product IT Eco Declaration: IEC 62623	naximum, idle, sleep, off mode					
(q) Sec	quence of steps for	achieving a stable condition with respect to power of Power on -> Wait 5 minutes ->Stable con						
(r) Des	Description of how sleep and/or off mode was selected or programmed: Begin menu -> Power -> Select sleep or off mode							
	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:							
		NA						
		condition before the computer automatically renot exceed the applicable power demand requirement		30min				
mo	de that has a lowe	a period of user inactivity in which the computer or power demand requirement than sleep mode (in	minutes):	NA				
		e the display sleep mode is set to activate after u ergy-saving potential of power management function <i>Refer to User Guide</i>		10min				
(x) Use	er information on he	ow to enable the power management functionality: Refer to User Guide						
the	(z) Test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing: 230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301							
Additional No	otebook Battery	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-i	n Battery	\boxtimes						
	chable Battery							
Bios Backup E	Battery							
Other:								
Additional info	ormation							
1)								
The battery[ies] in this product cannot be easily replaced by users themselves. Axywynaropµara[µre] δarepµa[µ] в този продукт не може да се заменµ[ят] лесно от самите потребители. Axywynaropµara[µre] бarepµa[µ] в този продукт не може да се заменµ[ят] лесно от самите потребители. Asy baterias de este producto no pueden ser sustituidas fácilmente por los propios usuarios. /ýměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé. Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt. Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden. (asutajad ei saa selle toote akut/akusid ise hôlpsasti asendada. 4 μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες .a/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes. Corisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu. .a batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente. .ietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us). Sio gaminio baterijos [bateriju] pats vartotojas negali lengvai pakeisti. A termék akkumulátorát/akkumulátoráti a felhasználó nem tudja egyedül egyszerűen kicserélni. I-batteria/batteriji f dan il-prodott ma tistax/jistgħux tiĝi/jiĝu sostitwita/i mill-utenti stess.								
De batterij(en) in dit Użytkownik nie może A ou as baterias des Bateria (bateriile) dir Batériu(-ie) v tomto v Baterij/baterije v tem Tämän tuotteen akku	product is (zijn) door de e sam w łatwy sposób w ste produto não podem n acest produs nu poate výrobku nemôže vymie nizdelku uporabniki sar	ni ne morejo zlahka zamenjati. osti käyttäjän vaihdettavissa.						