

Phthalic acid, butyl 2-tert-butyl-6-methylphenyl ester

Inchi:	InChI=1S/C23H28O4/c1-6-7-15-26-21(24)17-12-8-9-13-18(17)22(25)27-20-16(2)11-10-1
InchiKey:	SNCQKZNMDFXKDO-UHFFFAOYSA-N
Formula:	C23H28O4
SMILES:	CCCCOC(=O)c1ccccc1C(=O)Oc1c(C)cccc1C(C)(C)C
Mol. weight [g/mol]:	368.47

Physical Properties

Property code	Value	Unit	Source
gf	-126.29	kJ/mol	Joback Method
hf	-577.75	kJ/mol	Joback Method
hfus	40.40	kJ/mol	Joback Method
hvap	90.35	kJ/mol	Joback Method
log10ws	-6.85		Crippen Method
logp	5.469		Crippen Method
mcvol	302.290	ml/mol	McGowan Method
pc	1373.78	kPa	Joback Method
rinpol	2548.00		NIST Webbook
rinpol	2548.00		NIST Webbook
tb	943.29	K	Joback Method
tc	1172.25	K	Joback Method
tf	586.11	K	Joback Method
vc	1.145	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	955.32	J/molxK	943.29	Joback Method
cpg	1014.55	J/molxK	1134.09	Joback Method
cpg	1005.15	J/molxK	1095.93	Joback Method
cpg	994.59	J/molxK	1057.77	Joback Method
cpg	982.80	J/molxK	1019.61	Joback Method
cpg	969.74	J/molxK	981.45	Joback Method
cpg	1022.84	J/molxK	1172.25	Joback Method
dvisc	0.0000294	Paxs	943.29	Joback Method

dvisc	0.0000374	Paxs	883.76	Joback Method
dvisc	0.0000492	Paxs	824.23	Joback Method
dvisc	0.0000676	Paxs	764.70	Joback Method
dvisc	0.0000981	Paxs	705.17	Joback Method
dvisc	0.0001523	Paxs	645.64	Joback Method
dvisc	0.0002586	Paxs	586.11	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357095&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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