

Phthalic acid, hexadecyl 3-methylbut-3-enyl ester

Inchi:	InChI=1S/C29H46O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-19-23-32-28(30)26-20-17-18
InchiKey:	YBEFGDQROIWZRM-UHFFFAOYSA-N
Formula:	C29H46O4
SMILES:	<chem>C=C(C)CCOC(=O)c1cccc1C(=O)OCCCCCCCCCCCCCCCC</chem>
Mol. weight [g/mol]:	458.67

Physical Properties

Property code	Value	Unit	Source
gf	-92.47	kJ/mol	Joback Method
hf	-790.79	kJ/mol	Joback Method
hfus	67.50	kJ/mol	Joback Method
hvap	100.81	kJ/mol	Joback Method
log10ws	-9.76		Crippen Method
logp	8.448		Crippen Method
mcvol	406.290	ml/mol	McGowan Method
pc	794.84	kPa	Joback Method
rinsol	3246.00		NIST Webbook
tb	1043.72	K	Joback Method
tc	1283.65	K	Joback Method
tf	584.13	K	Joback Method
vc	1.581	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1402.12	J/mol×K	1043.72	Joback Method
cpg	1420.28	J/mol×K	1083.71	Joback Method
cpg	1436.69	J/mol×K	1123.70	Joback Method
cpg	1451.42	J/mol×K	1163.69	Joback Method
cpg	1464.58	J/mol×K	1203.68	Joback Method
cpg	1476.24	J/mol×K	1243.66	Joback Method
cpg	1486.49	J/mol×K	1283.65	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=U357114&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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