

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

Inchi:	InChI=1S/C23H34O4/c1-4-5-6-7-8-9-10-13-17-26-22(24)20-14-11-12-15-21(20)23(25)27
InchiKey:	HWOFEEO PAXFSMJ-UHFFFAOYSA-N
Formula:	C23H34O4
SMILES:	<chem>C=C(C)CCOC(=O)c1cccc1C(=O)OCCCCCCCCC</chem>
Mol. weight [g/mol]:	374.51

Physical Properties

Property code	Value	Unit	Source
gf	-142.99	kJ/mol	Joback Method
hf	-666.95	kJ/mol	Joback Method
hfus	51.96	kJ/mol	Joback Method
hvap	87.45	kJ/mol	Joback Method
log10ws	-7.25		Crippen Method
logp	6.107		Crippen Method
mvol	321.750	ml/mol	McGowan Method
pc	1132.91	kPa	Joback Method
rinpol	2634.00		NIST Webbook
rinpol	2634.00		NIST Webbook
tb	906.44	K	Joback Method
tc	1113.48	K	Joback Method
tf	516.51	K	Joback Method
vc	1.246	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1029.01	J/mol×K	906.44	Joback Method
cpg	1045.41	J/mol×K	940.95	Joback Method
cpg	1060.56	J/mol×K	975.45	Joback Method
cpg	1074.52	J/mol×K	1009.96	Joback Method
cpg	1087.31	J/mol×K	1044.47	Joback Method
cpg	1098.97	J/mol×K	1078.97	Joback Method
cpg	1109.54	J/mol×K	1113.48	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=U357108&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
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/17-422-4/Phthalic-acid-decyl-3-methylbut-3-enyl-ester.pdf>

Generated by Cheméo on 2024-04-30 20:17:12.453520598 +0000 UTC m=+16797481.374097911.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.