

Phthalic acid, heptadecyl 6-methylhept-2-yl ester

Inchi:	InChI=1S/C33H56O4/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-21-27-36-32(34)30-25-1
InchiKey:	XYHZWRROXCYKAY-UHFFFAOYSA-N
Formula:	C33H56O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)c1cccc1C(=O)OC(C)CCCC(C)C
Mol. weight [g/mol]:	516.80

Physical Properties

Property code	Value	Unit	Source
gf	-142.96	kJ/mol	Joback Method
hf	-999.55	kJ/mol	Joback Method
hfus	73.41	kJ/mol	Joback Method
hvap	109.53	kJ/mol	Joback Method
log10ws	-11.45		Crippen Method
logp	10.086		Crippen Method
mvol	466.950	ml/mol	McGowan Method
pc	637.05	kPa	Joback Method
rinpol	3515.00		NIST Webbook
rinpol	3515.00		NIST Webbook
tb	1137.80	K	Joback Method
tc	1425.65	K	Joback Method
tf	614.93	K	Joback Method
vc	1.812	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1689.45	J/molxK	1137.80	Joback Method
cpg	1763.06	J/molxK	1377.68	Joback Method
cpg	1753.01	J/molxK	1329.70	Joback Method
cpg	1740.80	J/molxK	1281.73	Joback Method
cpg	1726.25	J/molxK	1233.75	Joback Method
cpg	1709.19	J/molxK	1185.78	Joback Method
cpg	1771.10	J/molxK	1425.65	Joback Method
dvisc	0.0000062	Paxs	1137.80	Joback Method

dvisc	0.0000084	Paxs	1050.65	Joback Method
dvisc	0.0000121	Paxs	963.51	Joback Method
dvisc	0.0000187	Paxs	876.37	Joback Method
dvisc	0.0000318	Paxs	789.22	Joback Method
dvisc	0.0000617	Paxs	702.08	Joback Method
dvisc	0.0001443	Paxs	614.93	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=U377971&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	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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