

Diethylmalonic acid, 2,6-dichlorophenyl heptadecyl ester

Inchi:	InChI=1S/C30H48Cl2O4/c1-4-7-8-9-10-11-12-13-14-15-16-17-18-19-20-24-35-28(33)30
InchiKey:	HHVHCEWKCKXVMH-UHFFFAOYSA-N
Formula:	C30H48Cl2O4
SMILES:	CCCCCCCCCCCCCCCCOC(=O)C(CC)(CC)C(=O)Oc1c(Cl)cccc1Cl
Mol. weight [g/mol]:	543.61

Physical Properties

Property code	Value	Unit	Source
gf	-193.99	kJ/mol	Joback Method
hf	-978.77	kJ/mol	Joback Method
hfus	73.27	kJ/mol	Joback Method
hvap	111.76	kJ/mol	Joback Method
log10ws	-10.99		Crippen Method
logp	10.120		Crippen Method
mcvol	449.160	ml/mol	McGowan Method
pc	707.33	kPa	Joback Method
rinsol	3561.00		NIST Webbook
tb	1146.65	K	Joback Method
tc	1422.95	K	Joback Method
tf	685.90	K	Joback Method
vc	1.742	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1543.56	J/molxK	1146.65	Joback Method
cpg	1560.40	J/molxK	1192.70	Joback Method
cpg	1575.35	J/molxK	1238.75	Joback Method
cpg	1588.60	J/molxK	1284.80	Joback Method
cpg	1600.29	J/molxK	1330.85	Joback Method
cpg	1610.61	J/molxK	1376.90	Joback Method
cpg	1619.70	J/molxK	1422.95	Joback Method
dvisc	0.0000818	Paxs	685.90	Joback Method
dvisc	0.0000430	Paxs	762.69	Joback Method

dvisc	0.0000254	Paxs	839.48	Joback Method
dvisc	0.0000164	Paxs	916.27	Joback Method
dvisc	0.0000113	Paxs	993.07	Joback Method
dvisc	0.0000082	Paxs	1069.86	Joback Method
dvisc	0.0000063	Paxs	1146.65	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U369944&Units=SI
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

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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