

Glutaric acid, 2,4-dichloronaphthyl decyl ester

Inchi:	InChI=1S/C25H32Cl2O4/c1-2-3-4-5-6-7-8-11-17-30-23(28)15-12-16-24(29)31-25-20-14-
InchiKey:	VKKRHGCLFSUVDZ-UHFFFAOYSA-N
Formula:	C25H32Cl2O4
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2cccc12
Mol. weight [g/mol]:	467.43

Physical Properties

Property code	Value	Unit	Source
gf	-141.91	kJ/mol	Joback Method
hf	-687.22	kJ/mol	Joback Method
hfus	64.37	kJ/mol	Joback Method
hvap	104.23	kJ/mol	Joback Method
log10ws	-9.26		Crippen Method
logp	7.906		Crippen Method
mvol	359.250	ml/mol	McGowan Method
pc	1061.71	kPa	Joback Method
rinpol	3548.00		NIST Webbook
rinpol	3548.00		NIST Webbook
tb	1059.44	K	Joback Method
tc	1297.06	K	Joback Method
tf	672.35	K	Joback Method
vc	1.395	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1144.79	J/molxK	1059.44	Joback Method
cpg	1199.84	J/molxK	1257.45	Joback Method
cpg	1191.01	J/molxK	1217.85	Joback Method
cpg	1181.17	J/molxK	1178.25	Joback Method
cpg	1170.23	J/molxK	1138.65	Joback Method
cpg	1158.13	J/molxK	1099.04	Joback Method
cpg	1207.74	J/molxK	1297.06	Joback Method
dvisc	0.0000422	Paxs	1059.44	Joback Method

dvisc	0.0000518	Paxs	994.92	Joback Method
dvisc	0.0000653	Paxs	930.41	Joback Method
dvisc	0.0000852	Paxs	865.89	Joback Method
dvisc	0.0001160	Paxs	801.38	Joback Method
dvisc	0.0001669	Paxs	736.87	Joback Method
dvisc	0.0002573	Paxs	672.35	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358930&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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