

Glutaric acid, 2,4-dichloronaphthyl pentyl ester

Inchi:	InChI=1S/C20H22Cl2O4/c1-2-3-6-12-25-18(23)10-7-11-19(24)26-20-15-9-5-4-8-14(15)16
InchiKey:	OKFCVGOJNDBCCG-UHFFFAOYSA-N
Formula:	C20H22Cl2O4
SMILES:	CCCCOC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12
Mol. weight [g/mol]:	397.29

Physical Properties

Property code	Value	Unit	Source
gf	-184.01	kJ/mol	Joback Method
hf	-584.02	kJ/mol	Joback Method
hfus	51.42	kJ/mol	Joback Method
hvap	93.10	kJ/mol	Joback Method
log10ws	-7.17		Crippen Method
logp	5.956		Crippen Method
mvol	288.800	ml/mol	McGowan Method
pc	1491.89	kPa	Joback Method
rinpol	3016.00		NIST Webbook
rinpol	3016.00		NIST Webbook
tb	945.04	K	Joback Method
tc	1169.38	K	Joback Method
tf	616.00	K	Joback Method
vc	1.115	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	846.89	J/molxK	945.04	Joback Method
cpg	858.98	J/molxK	982.43	Joback Method
cpg	870.02	J/molxK	1019.82	Joback Method
cpg	880.07	J/molxK	1057.21	Joback Method
cpg	889.17	J/molxK	1094.60	Joback Method
cpg	897.37	J/molxK	1131.99	Joback Method
cpg	904.71	J/molxK	1169.38	Joback Method
dvisc	0.0004330	Paxs	616.00	Joback Method

dvisc	0.0002965	Paxs	670.84	Joback Method
dvisc	0.0002149	Paxs	725.68	Joback Method
dvisc	0.0001630	Paxs	780.52	Joback Method
dvisc	0.0001282	Paxs	835.36	Joback Method
dvisc	0.0001039	Paxs	890.20	Joback Method
dvisc	0.0000862	Paxs	945.04	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U358924&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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