

Glutaric acid, 2-methylpent-3-yl 2,4-dichloro-1-naphthyl ester

Inchi:	InChI=1S/C21H24Cl2O4/c1-4-18(13(2)3)26-19(24)10-7-11-20(25)27-21-15-9-6-5-8-14(15)
InchiKey:	QAGQVDVHJQCORU-UHFFFAOYSA-N
Formula:	C21H24Cl2O4
SMILES:	CCC(OC(=O)CCCC(=O)Oc1c(Cl)cc(Cl)c2ccccc12)C(C)C
Mol. weight [g/mol]:	411.32

Physical Properties

Property code	Value	Unit	Source
gf	-180.47	kJ/mol	Joback Method
hf	-615.22	kJ/mol	Joback Method
hfus	46.96	kJ/mol	Joback Method
hvap	94.55	kJ/mol	Joback Method
log10ws	-7.46		Crippen Method
logp	6.200		Crippen Method
mvol	302.890	ml/mol	McGowan Method
pc	1403.79	kPa	Joback Method
rinpol	2942.00		NIST Webbook
rinpol	2942.00		NIST Webbook
tb	967.04	K	Joback Method
tc	1195.44	K	Joback Method
tf	597.27	K	Joback Method
vc	1.159	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	906.18	J/molxK	967.04	Joback Method
cpg	957.28	J/molxK	1157.38	Joback Method
cpg	949.11	J/molxK	1119.31	Joback Method
cpg	939.97	J/molxK	1081.24	Joback Method
cpg	929.81	J/molxK	1043.17	Joback Method
cpg	918.56	J/molxK	1005.11	Joback Method
cpg	964.52	J/molxK	1195.44	Joback Method
dvisc	0.0000623	Paxs	967.04	Joback Method

dvisc	0.0000771	Paxs	905.41	Joback Method
dvisc	0.0000984	Paxs	843.78	Joback Method
dvisc	0.0001305	Paxs	782.15	Joback Method
dvisc	0.0001816	Paxs	720.53	Joback Method
dvisc	0.0002689	Paxs	658.90	Joback Method
dvisc	0.0004319	Paxs	597.27	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=U392018&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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