

Glutaric acid, 2-nitro-3-chlorobenzyl nonyl ester

Inchi:	InChI=1S/C21H30ClNO6/c1-2-3-4-5-6-7-8-15-28-19(24)13-10-14-20(25)29-16-17-11-9-1
InchiKey:	JLIDGJZHLJGFIY-UHFFFAOYSA-N
Formula:	C21H30ClNO6
SMILES:	CCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(Cl)c1[N+](=O)[O-]
Mol. weight [g/mol]:	427.92

Physical Properties

Property code	Value	Unit	Source
gf	-225.13	kJ/mol	Joback Method
hf	-779.28	kJ/mol	Joback Method
hfus	64.54	kJ/mol	Joback Method
hvap	105.23	kJ/mol	Joback Method
log10ws	-7.27		Crippen Method
logp	5.755		Crippen Method
mvol	327.530	ml/mol	McGowan Method
pc	1217.44	kPa	Joback Method
rinpol	3084.00		NIST Webbook
rinpol	3084.00		NIST Webbook
tb	1058.37	K	Joback Method
tc	1295.91	K	Joback Method
tf	695.74	K	Joback Method
vc	1.282	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1067.03	J/molxK	1058.37	Joback Method
cpg	1078.26	J/molxK	1097.96	Joback Method
cpg	1088.01	J/molxK	1137.55	Joback Method
cpg	1096.30	J/molxK	1177.14	Joback Method
cpg	1103.20	J/molxK	1216.73	Joback Method
cpg	1108.74	J/molxK	1256.32	Joback Method
cpg	1112.96	J/molxK	1295.91	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U377032&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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