

Glutaric acid, 3-methylbut-2-en-1-yl 2,4-dichlorophenyl ester

Inchi:	InChI=1S/C16H18Cl2O4/c1-11(2)8-9-21-15(19)4-3-5-16(20)22-14-7-6-12(17)10-13(14)18
InchiKey:	OABSGEAUHDHAJA-UHFFFAOYSA-N
Formula:	C16H18Cl2O4
SMILES:	CC(C)=CCOC(=O)CCCC(=O)Oc1ccc(Cl)cc1Cl
Mol. weight [g/mol]:	345.22

Physical Properties

Property code	Value	Unit	Source
gf	-243.04	kJ/mol	Joback Method
hf	-573.63	kJ/mol	Joback Method
hfus	43.32	kJ/mol	Joback Method
hvap	81.93	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	4.578		Crippen Method
mvol	247.600	ml/mol	McGowan Method
pc	1768.38	kPa	Joback Method
rinpol	2395.00		NIST Webbook
rinpol	2395.00		NIST Webbook
tb	833.60	K	Joback Method
tc	1051.90	K	Joback Method
tf	506.66	K	Joback Method
vc	0.951	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.81	J/mol×K	833.60	Joback Method
cpg	684.23	J/mol×K	869.98	Joback Method
cpg	695.68	J/mol×K	906.37	Joback Method
cpg	706.19	J/mol×K	942.75	Joback Method
cpg	715.80	J/mol×K	979.13	Joback Method
cpg	724.52	J/mol×K	1015.52	Joback Method
cpg	732.38	J/mol×K	1051.90	Joback Method

Sources

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=U391849&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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