

Glutaric acid, monochloride, 2,6-dichlorophenyl ester

Inchi:	InChI=1S/C11H9Cl3O3/c12-7-3-1-4-8(13)11(7)17-10(16)6-2-5-9(14)15/h1,3-4H,2,5-6H2
InchiKey:	SWSYWKQHHPQPPY-UHFFFAOYSA-N
Formula:	C11H9Cl3O3
SMILES:	O=C(Cl)CCCC(=O)Oc1c(Cl)cccc1Cl
Mol. weight [g/mol]:	295.55

Physical Properties

Property code	Value	Unit	Source
gf	-263.74	kJ/mol	Joback Method
hf	-461.38	kJ/mol	Joback Method
hfus	34.49	kJ/mol	Joback Method
hvap	72.74	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	3.834		Crippen Method
mcvol	187.820	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
rinpol	2017.00		NIST Webbook
rinpol	2017.00		NIST Webbook
tb	730.17	K	Joback Method
tc	958.17	K	Joback Method
tf	477.04	K	Joback Method
vc	0.721	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.91	J/molxK	730.17	Joback Method
cpg	439.76	J/molxK	768.17	Joback Method
cpg	448.84	J/molxK	806.17	Joback Method
cpg	457.14	J/molxK	844.17	Joback Method
cpg	464.71	J/molxK	882.17	Joback Method
cpg	471.54	J/molxK	920.17	Joback Method
cpg	477.65	J/molxK	958.17	Joback Method
dvisc	0.0009438	Paxs	477.04	Joback Method

dvisc	0.0006266	Paxs	519.23	Joback Method
dvisc	0.0004423	Paxs	561.42	Joback Method
dvisc	0.0003279	Paxs	603.61	Joback Method
dvisc	0.0002527	Paxs	645.79	Joback Method
dvisc	0.0002011	Paxs	687.98	Joback Method
dvisc	0.0001643	Paxs	730.17	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=U358845&Units=SI

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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