

Glutaric acid, cyclopentyl 2,3-dichlorophenyl ester

Inchi:	InChI=1S/C16H18Cl2O4/c17-12-7-3-8-13(16(12)18)22-15(20)10-4-9-14(19)21-11-5-1-2-6
InchiKey:	CBNMCNDEPNFZAG-UHFFFAOYSA-N
Formula:	C16H18Cl2O4
SMILES:	O=C(CCCC(=O)OC1CCCC1)Oc1cccc(Cl)c1Cl
Mol. weight [g/mol]:	345.22

Physical Properties

Property code	Value	Unit	Source
gf	-278.16	kJ/mol	Joback Method
hf	-620.58	kJ/mol	Joback Method
hfus	38.36	kJ/mol	Joback Method
hvap	82.15	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	4.555		Crippen Method
mcvol	241.040	ml/mol	McGowan Method
pc	1966.56	kPa	Joback Method
rinpol	2512.00		NIST Webbook
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tb	844.84	K	Joback Method
tc	1074.85	K	Joback Method
tf	536.60	K	Joback Method
vc	0.910	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.23	J/molxK	844.84	Joback Method
cpg	743.21	J/molxK	1036.52	Joback Method
cpg	734.62	J/molxK	998.18	Joback Method
cpg	724.85	J/molxK	959.85	Joback Method
cpg	713.88	J/molxK	921.51	Joback Method
cpg	701.69	J/molxK	883.18	Joback Method
cpg	750.67	J/molxK	1074.85	Joback Method
dvisc	0.0001089	Paxs	844.84	Joback Method

dvisc	0.0001343	Paxs	793.47	Joback Method
dvisc	0.0001706	Paxs	742.09	Joback Method
dvisc	0.0002245	Paxs	690.72	Joback Method
dvisc	0.0003086	Paxs	639.35	Joback Method
dvisc	0.0004487	Paxs	587.97	Joback Method
dvisc	0.0007008	Paxs	536.60	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U405399&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

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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