

Glutaric acid, 2,3-dichlorophenyl cis-4-tert-butylcyclohexyl ester

Inchi:	InChI=1S/C21H28Cl2O4/c1-21(2,3)14-10-12-15(13-11-14)26-18(24)8-5-9-19(25)27-17-7
InchiKey:	UXNIHVYSVFSRDN-UHFFFAOYSA-N
Formula:	C21H28Cl2O4
SMILES:	CC(C)(C)C1CCC(OC(=O)CCCC(=O)Oc2ccccc(Cl)c2Cl)CC1
Mol. weight [g/mol]:	415.35

Physical Properties

Property code	Value	Unit	Source
gf	-253.03	kJ/mol	Joback Method
hf	-759.03	kJ/mol	Joback Method
hfus	42.87	kJ/mol	Joback Method
hvap	91.85	kJ/mol	Joback Method
log10ws	-6.98		Crippen Method
logp	6.217		Crippen Method
mvol	311.490	ml/mol	McGowan Method
pc	1347.68	kPa	Joback Method
rinpol	2920.00		NIST Webbook
rinpol	2920.00		NIST Webbook
tb	955.61	K	Joback Method
tc	1188.95	K	Joback Method
tf	587.61	K	Joback Method
vc	1.171	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	986.84	J/molxK	955.61	Joback Method
cpg	1001.04	J/molxK	994.50	Joback Method
cpg	1013.64	J/molxK	1033.39	Joback Method
cpg	1024.73	J/molxK	1072.28	Joback Method
cpg	1034.34	J/molxK	1111.17	Joback Method
cpg	1042.53	J/molxK	1150.06	Joback Method
cpg	1049.37	J/molxK	1188.95	Joback Method
dvisc	0.0003463	Paxs	587.61	Joback Method

dvisc	0.0002000	Paxs	648.94	Joback Method
dvisc	0.0001269	Paxs	710.28	Joback Method
dvisc	0.0000866	Paxs	771.61	Joback Method
dvisc	0.0000625	Paxs	832.94	Joback Method
dvisc	0.0000472	Paxs	894.28	Joback Method
dvisc	0.0000369	Paxs	955.61	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=U393391&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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