

Glutaric acid, di(2-methyl-4-chlorophenyl) ester

Inchi:	InChI=1S/C19H18Cl2O4/c1-12-10-14(20)6-8-16(12)24-18(22)4-3-5-19(23)25-17-9-7-15(2)
InchiKey:	LJFKNQMRUVBVSX-UHFFFAOYSA-N
Formula:	C19H18Cl2O4
SMILES:	Cc1cc(Cl)ccc1OC(=O)CCCC(=O)Oc1ccc(Cl)cc1C
Mol. weight [g/mol]:	381.25

Physical Properties

Property code	Value	Unit	Source
gf	-196.30	kJ/mol	Joback Method
hf	-529.39	kJ/mol	Joback Method
hfus	45.46	kJ/mol	Joback Method
hvap	92.17	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	5.292		Crippen Method
mvol	270.410	ml/mol	McGowan Method
pc	1704.71	kPa	Joback Method
rinpol	2946.00		NIST Webbook
tb	934.84	K	Joback Method
tc	1169.45	K	Joback Method
tf	610.97	K	Joback Method
vc	1.030	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	764.29	J/molxK	934.84	Joback Method
cpg	775.30	J/molxK	973.94	Joback Method
cpg	785.03	J/molxK	1013.04	Joback Method
cpg	793.48	J/molxK	1052.15	Joback Method
cpg	800.70	J/molxK	1091.25	Joback Method
cpg	806.69	J/molxK	1130.35	Joback Method
cpg	811.48	J/molxK	1169.45	Joback Method
dvisc	0.0002867	Paxs	610.97	Joback Method
dvisc	0.0001914	Paxs	664.95	Joback Method

dvisc	0.0001358	Paxs	718.93	Joback Method
dvisc	0.0001011	Paxs	772.90	Joback Method
dvisc	0.0000782	Paxs	826.88	Joback Method
dvisc	0.0000624	Paxs	880.86	Joback Method
dvisc	0.0000511	Paxs	934.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U359025&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

Latest version available from:

<https://www.chemeo.com/cid/63-144-2/Glutaric-acid-di-2-methyl-4-chlorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-28 20:19:11.919159602 +0000 UTC m=+16624800.839736913.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.