

Glutaric acid, cyclohexylmethyl 4-acetylphenyl ester

Inchi:	InChI=1S/C20H26O5/c1-15(21)17-10-12-18(13-11-17)25-20(23)9-5-8-19(22)24-14-16-6-
InchiKey:	NNUDNEVJANJOIU-UHFFFAOYSA-N
Formula:	C20H26O5
SMILES:	CC(=O)c1ccc(OC(=O)CCCC(=O)OCC2CCCCC2)cc1
Mol. weight [g/mol]:	346.42

Physical Properties

Property code	Value	Unit	Source
gf	-352.01	kJ/mol	Joback Method
hf	-778.93	kJ/mol	Joback Method
hfus	40.22	kJ/mol	Joback Method
hvap	88.54	kJ/mol	Joback Method
log10ws	-5.15		Crippen Method
logp	4.088		Crippen Method
mvol	274.490	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
rinpol	2842.00		NIST Webbook
rinpol	2842.00		NIST Webbook
tb	914.66	K	Joback Method
tc	1140.45	K	Joback Method
tf	555.73	K	Joback Method
vc	1.034	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	887.87	J/molxK	914.66	Joback Method
cpg	902.45	J/molxK	952.29	Joback Method
cpg	915.48	J/molxK	989.92	Joback Method
cpg	927.00	J/molxK	1027.55	Joback Method
cpg	937.05	J/molxK	1065.18	Joback Method
cpg	945.65	J/molxK	1102.81	Joback Method
cpg	952.83	J/molxK	1140.45	Joback Method
dvisc	0.0005492	Paxs	555.73	Joback Method

dvisc	0.0003093	Paxs	615.55	Joback Method
dvisc	0.0001929	Paxs	675.37	Joback Method
dvisc	0.0001299	Paxs	735.19	Joback Method
dvisc	0.0000928	Paxs	795.02	Joback Method
dvisc	0.0000695	Paxs	854.84	Joback Method
dvisc	0.0000541	Paxs	914.66	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=U392036&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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