

Glutaric acid, di(5-methyl-2-methoxybenzyl) ester

Inchi:	InChI=1S/C21H24O6/c1-14-8-10-16(24-3)18(12-14)26-20(22)6-5-7-21(23)27-19-13-15(2)
InchiKey:	MKIDKWJVEGCGSX-UHFFFAOYSA-N
Formula:	C21H24O6
SMILES:	COc1ccc(C)cc1OC(=O)CCCC(=O)Oc1cc(C)ccc1OC
Mol. weight [g/mol]:	372.41

Physical Properties

Property code	Value	Unit	Source
gf	-365.60	kJ/mol	Joback Method
hf	-803.63	kJ/mol	Joback Method
hfus	44.62	kJ/mol	Joback Method
hvap	92.67	kJ/mol	Joback Method
log10ws	-5.36		Crippen Method
logp	4.002		Crippen Method
mcvol	285.850	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinqol	2901.00		NIST Webbook
tb	950.58	K	Joback Method
tc	1175.75	K	Joback Method
tf	618.13	K	Joback Method
vc	1.079	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	889.84	J/molxK	950.58	Joback Method
cpg	902.04	J/molxK	988.11	Joback Method
cpg	912.62	J/molxK	1025.64	Joback Method
cpg	921.57	J/molxK	1063.16	Joback Method
cpg	928.89	J/molxK	1100.69	Joback Method
cpg	934.56	J/molxK	1138.22	Joback Method
cpg	938.55	J/molxK	1175.75	Joback Method
dvisc	0.0001708	Paxs	618.13	Joback Method
dvisc	0.0001126	Paxs	673.54	Joback Method

dvisc	0.0000791	Paxs	728.95	Joback Method
dvisc	0.0000584	Paxs	784.36	Joback Method
dvisc	0.0000449	Paxs	839.76	Joback Method
dvisc	0.0000356	Paxs	895.17	Joback Method
dvisc	0.0000291	Paxs	950.58	Joback Method

Sources

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=U393936&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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