Glutaric acid, di(2-iodobenzyl) ester

Inchi: InChI=1S/C19H18I2O4/c20-16-8-3-1-6-14(16)12-24-18(22)10-5-11-19(23)25-13-15-7-2-4-9-17(15)21
InchiKey: ACPPAQZVKGYKFR-UHFFFAOYSA-N
Formula: C19H18I2O4
SMILES: O=C(CCCC(=O)OCc1ccccc1I)OCc1ccccc1I
Mol. weight [g/mol]: 564.15

Physical Properties

Property code	Value	Unit	Source
gf	-36.94	kJ/mol	Joback Method
hf	-321.23	kJ/mol	Joback Method
hfus	46.66	kJ/mol	Joback Method
hvap	100.82	kJ/mol	Joback Method
log10ws	-6.99		Crippen Method
logp	4.853		Crippen Method
mcvol	297.570	ml/mol	McGowan Method
pc	1792.42	kPa	Joback Method
rinpol	3398.00		NIST Webbook
rinpol	3398.00		NIST Webbook
tb	1036.30	K	Joback Method
tc	1300.83	K	Joback Method
tf	642.21	K	Joback Method
vc	1.107	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	798.42	J/mol×K	1036.30	Joback Method
cpg	834.43	J/mol×K	1256.75	Joback Method
cpg	829.19	J/mol×K	1212.66	Joback Method
cpg	823.05	J/mol×K	1168.57	Joback Method
cpg	815.93	J/mol×K	1124.48	Joback Method
cpg	807.75	J/mol×K	1080.39	Joback Method
cpg	838.87	J/mol×K	1300.83	Joback Method
dvisc	0.0000316	Pa×s	1036.30	Joback Method

dvisc	0.0000398	Pa×s	970.62	Joback Method
dvisc	0.0000517	Pa×s	904.94	Joback Method
dvisc	0.0000701	Pa×s	839.25	Joback Method
dvisc	0.0001000	Pa×s	773.57	Joback Method
dvisc	0.0001523	Pa×s	707.89	Joback Method
dvisc	0.0002530	Pa×s	642.21	Joback Method

Sources

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=U376888&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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