Glutaric acid, 3-chlorophenyl phenethyl ester

Inchi: InChI=1S/C19H19ClO4/c20-16-8-4-9-17(14-16)24-19(22)11-5-10-18(21)23-13-12-15-6-2
InchiKey: NLGBBVIIVWUUEM-UHFFFAOYSA-N
Formula: C19H19ClO4
SMILES: O=C(CCCC(=O)Oc1cccc(Cl)c1)OCCc1ccccc1
Mol. weight [g/mol]: 346.81

Physical Properties

Property code	Value	Unit	Source
gf	-155.48	kJ/mol	Joback Method
hf	-479.24	kJ/mol	Joback Method
hfus	42.43	kJ/mol	Joback Method
hvap	85.80	kJ/mol	Joback Method
log10ws	-5.04		Crippen Method
logp	4.202		Crippen Method
mcvol	258.170	ml/mol	McGowan Method
pc	1826.28	kPa	Joback Method
rinpol	2658.00		NIST Webbook
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tb	882.47	K	Joback Method
tc	1111.50	K	Joback Method
tf	543.49	K	Joback Method
vc	0.981	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	747.62	J/mol×K	882.47	Joback Method
cpg	760.32	J/mol×K	920.64	Joback Method
cpg	771.77	J/mol×K	958.81	Joback Method
cpg	782.02	J/mol×K	996.99	Joback Method
cpg	791.10	J/mol×K	1035.16	Joback Method
cpg	799.05	J/mol×K	1073.33	Joback Method
cpg	805.92	J/mol×K	1111.50	Joback Method
dvisc	0.0004741	Pa×s	543.49	Joback Method

dvisc	0.0002808	Pa×s	599.99	Joback Method
dvisc	0.0001820	Pa×s	656.48	Joback Method
dvisc	0.0001264	Pa×s	712.98	Joback Method
dvisc	0.0000926	Pa×s	769.48	Joback Method
dvisc	0.0000707	Pa×s	825.97	Joback Method
dvisc	0.0000560	Pa×s	882.47	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=U391794&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