

Glutaric acid, monoamide, N-(2-chlorophenyl)-, isobutyl ester

Inchi: InChI=1S/C15H20ClNO3/c1-11(2)10-20-15(19)9-5-8-14(18)17-13-7-4-3-6-12(13)16/h3-4
InchiKey: KRZVEIXMQHAQPC-UHFFFAOYSA-N
Formula: C15H20ClNO3
SMILES: CC(C)COC(=O)CCCC(=O)Nc1ccccc1Cl
Mol. weight [g/mol]: 297.78

Physical Properties

Property code	Value	Unit	Source
gf	-109.62	kJ/mol	Joback Method
hf	-452.80	kJ/mol	Joback Method
hfus	38.42	kJ/mol	Joback Method
hvap	78.26	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.648		Crippen Method
mcvol	229.680	ml/mol	McGowan Method
pc	1977.07	kPa	Joback Method
rinpola	2619.00		NIST Webbook
rinpola	2619.00		NIST Webbook
tb	791.58	K	Joback Method
tc	1003.84	K	Joback Method
tf	487.42	K	Joback Method
vc	0.875	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	647.73	J/molxK	791.58	Joback Method
cpg	661.29	J/molxK	826.96	Joback Method
cpg	673.86	J/molxK	862.33	Joback Method
cpg	685.46	J/molxK	897.71	Joback Method
cpg	696.13	J/molxK	933.09	Joback Method
cpg	705.90	J/molxK	968.47	Joback Method
cpg	714.79	J/molxK	1003.84	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360891&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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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