

Succinic acid, isobutyl 3-nitrobenzyl ester

Inchi:	InChI=1S/C15H19NO6/c1-11(2)9-21-14(17)6-7-15(18)22-10-12-4-3-5-13(8-12)16(19)20/
InchiKey:	FCRHABQZCZNMH-UHFFFAOYSA-N
Formula:	C15H19NO6
SMILES:	CC(C)COC(=O)CCC(=O)OCc1cccc([N+](=O)[O-])c1
Mol. weight [g/mol]:	309.31

Physical Properties

Property code	Value	Unit	Source
gf	-256.53	kJ/mol	Joback Method
hf	-633.51	kJ/mol	Joback Method
hfus	41.67	kJ/mol	Joback Method
hvap	86.44	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	2.617		Crippen Method
mcvol	230.750	ml/mol	McGowan Method
pc	2010.90	kPa	Joback Method
rinpola	2334.00		NIST Webbook
tb	878.24	K	Joback Method
tc	1104.68	K	Joback Method
tf	570.68	K	Joback Method
vc	0.891	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	698.81	J/molxK	878.24	Joback Method
cpg	710.85	J/molxK	915.98	Joback Method
cpg	721.71	J/molxK	953.72	Joback Method
cpg	731.40	J/molxK	991.46	Joback Method
cpg	739.95	J/molxK	1029.20	Joback Method
cpg	747.37	J/molxK	1066.94	Joback Method
cpg	753.69	J/molxK	1104.68	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=U381687&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvac:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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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