

Succinimide, 2-[2-(2-oxocyclohexyl)-2-oxoethyl]-

Inchi:	InChI=1S/C12H15NO4/c14-9-4-2-1-3-8(9)10(15)5-7-6-11(16)13-12(7)17/h7,14H,1-6H2,(
InchiKey:	PGISFNYPLMGLCP-UHFFFAOYSA-N
Formula:	C12H15NO4
SMILES:	O=C1CC(CC(=O)C2=C(O)CCCC2)C(=O)N1
Mol. weight [g/mol]:	237.25
CAS:	93136-49-3

Physical Properties

Property code	Value	Unit	Source
gf	-293.64	kJ/mol	Joback Method
hf	-623.43	kJ/mol	Joback Method
hfus	26.28	kJ/mol	Joback Method
hvap	83.59	kJ/mol	Joback Method
log10ws	-2.09		Crippen Method
logp	0.994		Crippen Method
mcvol	174.480	ml/mol	McGowan Method
pc	3476.55	kPa	Joback Method
tb	852.82	K	Joback Method
tc	1092.85	K	Joback Method
tf	625.54	K	Joback Method
vc	0.644	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.74	J/molxK	852.82	Joback Method
cpg	572.68	J/molxK	892.82	Joback Method
cpg	584.13	J/molxK	932.83	Joback Method
cpg	594.06	J/molxK	972.83	Joback Method
cpg	602.44	J/molxK	1012.84	Joback Method
cpg	609.22	J/molxK	1052.84	Joback Method
cpg	614.38	J/molxK	1092.85	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=C93136493&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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