

2-Oxaspiro[3,5]nonane

Inchi: InChI=1S/C8H14O/c1-2-4-8(5-3-1)6-7-9-8/h1-7H2
InchiKey: LXIMXSJHBZZOKU-UHFFFAOYSA-N
Formula: C8H14O
SMILES: C1CCC2(CC1)CCO2
Mol. weight [g/mol]: 126.20

Physical Properties

Property code	Value	Unit	Source
gf	17.78	kJ/mol	Joback Method
hf	-177.75	kJ/mol	Joback Method
hfus	7.06	kJ/mol	Joback Method
hvap	37.41	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.110		Crippen Method
mcvol	107.730	ml/mol	McGowan Method
pc	3995.65	kPa	Joback Method
rinpola	1049.00		NIST Webbook
rinpola	1049.00		NIST Webbook
tb	440.59	K	Joback Method
tc	669.59	K	Joback Method
tf	259.95	K	Joback Method
vc	0.394	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.81	J/mol×K	440.59	Joback Method
cpg	249.62	J/mol×K	478.76	Joback Method
cpg	266.82	J/mol×K	516.92	Joback Method
cpg	282.58	J/mol×K	555.09	Joback Method
cpg	297.07	J/mol×K	593.25	Joback Method
cpg	310.46	J/mol×K	631.42	Joback Method
cpg	322.91	J/mol×K	669.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R6565&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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