

Tartaramide

Other names:	NSC 38709 2,3-Dihydroxysuccinamide Butanediamide, 2,3-dihydroxy- DL-Tartaramide
Inchi:	InChI=1S/C4H8N2O4/c5-3(9)1(7)2(8)4(6)10/h1-2,7-8H,(H2,5,9)(H2,6,10)
InchiKey:	GRMNJXQBRPJVQV-UHFFFAOYSA-N
Formula:	C4H8N2O4
SMILES:	NC(=O)C(O)C(O)C(N)=O
Mol. weight [g/mol]:	148.12
CAS:	6051-30-5

Physical Properties

Property code	Value	Unit	Source
chs	-1784.00 ± 0.40	kJ/mol	NIST Webbook
gf	-420.66	kJ/mol	Joback Method
hf	-598.49	kJ/mol	Joback Method
hfus	20.84	kJ/mol	Joback Method
hvap	91.85	kJ/mol	Joback Method
log10ws	1.33		Crippen Method
logp	-3.321		Crippen Method
mcvol	102.060	ml/mol	McGowan Method
pc	7406.07	kPa	Joback Method
tb	727.20	K	Joback Method
tc	925.76	K	Joback Method
tf	492.86	K	Joback Method
vc	0.355	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.12	J/mol×K	727.20	Joback Method
cpg	284.66	J/mol×K	760.29	Joback Method
cpg	289.82	J/mol×K	793.39	Joback Method
cpg	294.60	J/mol×K	826.48	Joback Method

cpg	299.02	J/mol×K	859.58	Joback Method
cpg	303.10	J/mol×K	892.67	Joback Method
cpg	306.84	J/mol×K	925.76	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C6051305&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
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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