

Ethanedioic acid, dihydrazide

Other names:	Oxalic acid, dihydrazide Oxaldihydrazide Oxalhydrazide Oxalic acid bishydrazide Oxalic acid hydrazide Oxalic dihydrazide Oxalic hydrazide Oxaloyl dihydrazide Oxaloylhydrazine Oxalyl dihydrazide Oxalyl hydrazide Oxalylhydrazine Ethanedioyl dihydrazide Oxaloylhydrazide Ethanedioic acid, 1,2-dihydrazide NSC 264 oxalohydrazide
Inchi:	InChI=1S/C2H6N4O2/c3-5-1(7)2(8)6-4/h3-4H2,(H,5,7)(H,6,8)
InchiKey:	SWRGUMCEJHQWEE-UHFFFAOYSA-N
Formula:	C2H6N4O2
SMILES:	NNC(=O)C(=O)NN
Mol. weight [g/mol]:	118.09
CAS:	996-98-5

Physical Properties

Property code	Value	Unit	Source
chs	-1349.30 ± 0.54	kJ/mol	NIST Webbook
chs	-1350.80 ± 0.54	kJ/mol	NIST Webbook
chs	-1369.68	kJ/mol	NIST Webbook
gf	19.80	kJ/mol	Joback Method
hf	-135.25	kJ/mol	Joback Method
hfus	24.73	kJ/mol	Joback Method
hvap	67.69	kJ/mol	Joback Method
log10ws	0.56		Crippen Method
logp	-3.034		Crippen Method
mcvol	82.100	ml/mol	McGowan Method
pc	7640.96	kPa	Joback Method

tb	598.30	K	Joback Method
tc	822.45	K	Joback Method
tf	484.00	K	Joback Method
vc	0.287	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	199.18	J/mol×K	598.30	Joback Method
cpg	205.57	J/mol×K	635.66	Joback Method
cpg	211.51	J/mol×K	673.02	Joback Method
cpg	217.02	J/mol×K	710.37	Joback Method
cpg	222.11	J/mol×K	747.73	Joback Method
cpg	226.78	J/mol×K	785.09	Joback Method
cpg	231.06	J/mol×K	822.45	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C996985&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

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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