BIUREA

Other names:	Biurea
	Hydrazodicarbonamide
	Hydrazodiformamide
	N,N'-Dicarbamoylhydrazine
	Bicarbamamide
	Bicarbamimidic acid
	Formamide, 1,1'-hydrazobis-
	Formimidic acid, 1-semicarbazido-
	Hydrazine, 1,2-bis(aminocarbonyl)-
	Hydrazine, 1,2-dicarbamoyl-
	Hydrazinecarboximidic acid, 2-(aminocarbonyl)-
	Hydrazocarbonamide
	Hydrazodicarboxamide
	Pseudourea, 3-ureido-
	Semicarbazide, 1-(1-hydroxyformimidoyl)-
	Semicarbazide, 1-carbamoyl-
	Urea, ureido-
	Ureidourea
	Hydradicarbonamide
	Hydrazinedicarboxylic acid diamide
	N,N'-Biscarbamoylhydrazine
	NSC 1897
	1,1-hydrazoformamide
Inchi:	InChI=1S/C2H6N4O2/c3-1(7)5-6-2(4)8/h(H3,3,5,7)(H3,4,6,8)
InchiKey:	ULUZGMIUTMRARO-UHFFFAOYSA-N
Formula:	C2H6N4O2
SMILES:	NC(=O)NNC(N)=O
Mol. weight [g/mol]:	118.10

Physical Properties

Property code	Value	Unit	Source
chs	-1145.90 ± 1.20	kJ/mol	NIST Webbook
chs	-1146.60 ± 0.63	kJ/mol	NIST Webbook
chs	-1151.00	kJ/mol	NIST Webbook
hf	-385.21	kJ/mol	Cheméo Relay (1.0)
hfs	-498.70 ± 1.20	kJ/mol	NIST Webbook

hfus	24.73	kJ/mol	Joback Method
hvap	88.18	kJ/mol	Cheméo Relay (1.0)
ie	9.07	eV	Cheméo Relay (1.0)
log10ws	-1.67		Cheméo Relay (1.0)
logp	-1.762		Crippen Method
mcvol	82.100	ml/mol	McGowan Method
tb	506.44	K	Cheméo Relay (1.0)
tf	501.13	K	Cheméo Relay (1.0)

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

Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C110214&Units=SI

Legend

chs: Standard solid enthalpy of combustion
cpg: Ideal gas heat capacity
hf: Enthalpy of formation at standard conditions

hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point