

2-Hydrazinoethanol

Other names:	2-Hydroxyethylhydrazine «beta»-Hydroxyethylhydrazine Ethanol, 2-hydrazino- BOH Ethanolhydrazine Hydrazineethanol Hydroxyethylhydrazine HEH N-(2-Hydroxyethyl)hydrazine Omaflora 1-(2-Hydroxyethyl)hydrazine 2-Hydrazineethanol 2-Hydrazinoethyl alcohol Brombloom Ethanol, 2-hydrazinyl- NSC 189820
Inchi:	InChI=1S/C2H8N2O/c3-4-1-2-5/h4-5H,1-3H2
InchiKey:	GBHCABUWWQUMAJ-UHFFFAOYSA-N
Formula:	C2H8N2O
SMILES:	NNCCO
Mol. weight [g/mol]:	76.10
CAS:	109-84-2

Physical Properties

Property code	Value	Unit	Source
gf	-15.02	kJ/mol	Joback Method
hf	-149.58	kJ/mol	Joback Method
hfus	15.32	kJ/mol	Joback Method
hvap	53.80	kJ/mol	Joback Method
log10ws	0.46		Crippen Method
logp	-1.558		Crippen Method
mcvol	64.870	ml/mol	McGowan Method
pc	6420.53	kPa	Joback Method
tb	460.04	K	Joback Method
tc	642.12	K	Joback Method
tf	309.04	K	Joback Method
vc	0.231	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	140.35	J/mol×K	460.04	Joback Method
cpg	146.38	J/mol×K	490.39	Joback Method
cpg	152.14	J/mol×K	520.73	Joback Method
cpg	157.64	J/mol×K	551.08	Joback Method
cpg	162.90	J/mol×K	581.42	Joback Method
cpg	167.92	J/mol×K	611.77	Joback Method
cpg	172.70	J/mol×K	642.12	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	430.70	K	4.30	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C109842&Units=SI
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

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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