Hydrazine, 2-ethyl-1,1-dimethyl-

Other names: 1,1-Dimethyl-2-ethylhydrazine
Inchi: InChI=1S/C4H12N2/c1-4-5-6(2)3/h5H,4H2,1-3H3
InchiKey: TWWCBLSUGOSDIY-UHFFFAOYSA-N
Formula: C4H12N2
SMILES: CCNN(C)C
Mol. weight [g/mol]: 88.15
CAS: 29559-82-8

Physical Properties

Property code	Value	Unit	Source
gf	182.97	kJ/mol	Joback Method
hf	-4.89	kJ/mol	Joback Method
hfus	14.24	kJ/mol	Joback Method
hvap	32.98	kJ/mol	Joback Method
log10ws	-0.25		Crippen Method
logp	0.073		Crippen Method
mcvol	87.180	ml/mol	McGowan Method
pc	3950.57	kPa	Joback Method
rinpol	818.00		NIST Webbook
rinpol	818.00		NIST Webbook
tb	353.53	K	Joback Method
tc	522.78	K	Joback Method
tf	219.97	K	Joback Method
vc	0.312	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	153.15	J/mol×K	353.53	Joback Method
cpg	163.23	J/mol×K	381.74	Joback Method
cpg	172.89	J/mol×K	409.95	Joback Method
cpg	182.15	J/mol×K	438.15	Joback Method
cpg	191.03	J/mol×K	466.36	Joback Method
cpg	199.52	J/mol×K	494.57	Joback Method

cpg	207.66	J/mol×K	522.78	Joback Method

Sources

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=C29559828&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume