

Acetaldehyde, ethylidenehydrazone

Other names:	Acetaldehyde, azine Acetaldazine Ethanal ethylidenehydrazone Acetaldehydazine Bisethylidenehydrazine Diethylidinehydrazine
Inchi:	InChI=1S/C4H8N2/c1-3-5-6-4-2/h3-4H,1-2H3
InchiKey:	AYNNMBYJCNKVIJ-UHFFFAOYSA-N
Formula:	C4H8N2
SMILES:	CC=NN=CC
Mol. weight [g/mol]:	84.12
CAS:	592-56-3

Physical Properties

Property code	Value	Unit	Source
hf	38.55	kJ/mol	Joback Method
hvap	31.13	kJ/mol	Joback Method
ie	8.43	eV	NIST Webbook
ie	8.50	eV	NIST Webbook
ie	8.56	eV	NIST Webbook
ie	9.10	eV	NIST Webbook
ie	11.62	eV	NIST Webbook
ie	9.11	eV	NIST Webbook
log10ws	-0.82		Crippen Method
logp	1.083		Crippen Method
mcvol	78.580	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
tb	368.70	K	NIST Webbook
tc	658.88	K	Joback Method

Sources

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=C592563&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Legend

hf: Enthalpy of formation at standard conditions
h_{vap}: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log₁₀ws: Log₁₀ of Water solubility in mol/l
log_p: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature

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