

Acetaldehyde, butylhydrazone

Other names:	Acetaldehyde n-butylhydrazone Ethanal, butylhydrazone
Inchi:	InChI=1S/C6H14N2/c1-3-5-6-8-7-4-2/h4,8H,3,5-6H2,1-2H3
InchiKey:	CGCWYQXCVFERRJ-UHFFFAOYSA-N
Formula:	C6H14N2
SMILES:	CC=NNCCCC
Mol. weight [g/mol]:	114.19
CAS:	20607-72-1

Physical Properties

Property code	Value	Unit	Source
hf	-31.48	kJ/mol	Joback Method
hvap	38.70	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.382		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2811.36	kPa	Joback Method
rinpol	922.00		NIST Webbook
rinpol	922.00		NIST Webbook
tb	463.53	K	Joback Method
tc	654.61	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=C20607721&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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