

Butyraldehyde n-butylhydrazone

Inchi: InChI=1S/C8H18N2/c1-3-5-7-9-10-8-6-4-2/h7,10H,3-6,8H2,1-2H3/b9-7+
InchiKey: ZLYLHUZXJBEGBY-VQHVLOKHSA-N
Formula: C8H18N2
SMILES: CCCC=NNCCCC
Mol. weight [g/mol]: 142.24
CAS: 38126-74-8

Physical Properties

Property code	Value	Unit	Source
chl	-5676.40 ± 0.40	kJ/mol	NIST Webbook
hf	-72.76	kJ/mol	Joback Method
hfl	-43.90	kJ/mol	NIST Webbook
hvap	43.15	kJ/mol	Joback Method
log10ws	-2.52		Crippen Method
logp	2.162		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
tb	509.29	K	Joback Method
tc	696.13	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=C38126748&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Legend

chl: Standard liquid enthalpy of combustion

hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation 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
tc:	Critical Temperature

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