

Glyoxylic acid semicarbazone

Other names:	[(aminocarbonyl)hydrazono]acetic acid
Inchi:	InChI=1S/C3H5N3O3/c4-3(9)6-5-1-2(7)8/h1H,(H,7,8)(H3,4,6,9)/b5-1+
InchiKey:	QZSYGBNBQHRGKK-ORCRQEGFSA-N
Formula:	C3H5N3O3
SMILES:	NC(=O)NN=CC(=O)O
Mol. weight [g/mol]:	131.09
CAS:	928-73-4

Physical Properties

Property code	Value	Unit	Source
hf	-313.16	kJ/mol	Joback Method
hvap	72.83	kJ/mol	Joback Method
log10ws	0.29		Crippen Method
logp	-1.275		Crippen Method
mcvol	87.780	ml/mol	McGowan Method
pc	5713.21	kPa	Joback Method
tb	667.34	K	Joback Method
tc	879.11	K	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C928734&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

hf:	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

Latest version available from:

<https://www.cheméo.com/cid/27-556-5/Glyoxylic-acid-semicarbazone.pdf>

Generated by Cheméo on 2024-09-27 15:27:22.346235191 +0000 UTC m=+2031704.983204440.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.