

Hydrazinecarboxamide, 2-(1-methylethylidene)-

Other names:	Acetone, semicarbazone 2-Propanone, semicarbazone
Inchi:	InChI=1S/C4H9N3O/c1-3(2)6-7-4(5)8/h1-2H3,(H3,5,7,8)
InchiKey:	HQDAJGNZGNZGCO-UHFFFAOYSA-N
Formula:	C4H9N3O
SMILES:	CC(C)=NNC(N)=O
Mol. weight [g/mol]:	115.13
CAS:	110-20-3

Physical Properties

Property code	Value	Unit	Source
hf	-78.78	kJ/mol	Joback Method
hvap	51.72	kJ/mol	Joback Method
log10ws	-1.03		Crippen Method
logp	0.051		Crippen Method
mcvol	94.430	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
tb	544.05	K	Joback Method
tc	765.20	K	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=C110203&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf: Enthalpy of formation at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
p_c:	Critical Pressure
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature

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