Ethanedial, dioxime

Other names:	Glyoxal, dioxime
	Ethanedione dioxime
	Glyoxime
	Pik-off
	Cga-22911
Inchi:	InChI=1S/C2H4N2O2/c5-3-1-2-4-6/h1-2,5-6H
InchiKey:	LJHFIVQEAFAURQ-UHFFFAOYSA-N
Formula:	C2H4N2O2
SMILES:	ON=CC=NO
Mol. weight [g/mol]:	88.07
CAS:	557-30-2

Physical Properties

Property code	Value	Unit	Source
chs	-1272.00	kJ/mol	NIST Webbook
hf	-224.63	kJ/mol	Joback Method
hvap	60.03	kJ/mol	Joback Method
log10ws	1.70		Crippen Method
logp	-0.094		Crippen Method
mcvol	62.140	ml/mol	McGowan Method
pc	4849.43	kPa	Joback Method
tb	582.88	K	Joback Method
tc	776.66	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C557302&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
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

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