2,3-Butanedione, monooxime

Other names:	Biacetyl monooxime
	Biacetyl monoxime
	Diacetyl monooxime
	Diacetyl monoxime
	DAM
	2-Oximino-3-Butanone
	2,3-Butanedione monoxime
	2,3-Butanedione, 2-oxime
	2,3-Butanedione 3-monoxime
	2,3-Butanedione-2-monoxime
	3-Oximino-2-butanone
	2,3-Butanedione oxime
	3-Oxo-2-butanone oxime
	DAM (oxime)
	Isonitrosoethyl methyl ketone
	NSC 116103
Inchi:	InChI=1S/C4H7NO2/c1-3(5-7)4(2)6/h7H,1-2H3
InchiKey:	FSEUPUDHEBLWJY-UHFFFAOYSA-N
Formula:	C4H7NO2
SMILES:	CC(=O)C(C)=NO
Mol. weight [g/mol]:	101.10
CAS:	57-71-6

Physical Properties

Property code	Value	Unit	Source
hf	-318.27	kJ/mol	Joback Method
hvap	51.32	kJ/mol	Joback Method
log10ws	0.41		Crippen Method
logp	0.425		Crippen Method
mcvol	80.340	ml/mol	McGowan Method
pc	4178.49	kPa	Joback Method
ripol	1782.00		NIST Webbook
ripol	1796.00		NIST Webbook
ripol	1796.00		NIST Webbook
tb	458.70	K	NIST Webbook
tc	709.51	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=C57716&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature