3-(Phenylhydrazono)-2-butanone

Other names:	2,3-Butanedione 2-(phenylhydrazone)
	Biacetyl phenylhydrazone
Inchi:	InChI=1S/C10H12N2O/c1-8(9(2)13)11-12-10-6-4-3-5-7-10/h3-7,12H,1-2H3
InchiKey:	HUHADASXDUCZMY-UHFFFAOYSA-N
Formula:	C10H12N2O
SMILES:	CC(=O)C(C)=NNc1ccccc1
Mol. weight [g/mol]:	176.22
CAS:	13732-32-6

Physical Properties

Property code	Value	Unit	Source
chs	-5677.30	kJ/mol	NIST Webbook
hf	0.12	kJ/mol	Joback Method
hfs	-0.40	kJ/mol	NIST Webbook
hvap	56.71	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	2.063		Crippen Method
mcvol	145.230	ml/mol	McGowan Method
pc	2856.62	kPa	Joback Method
tb	635.48	K	Joback Method
tc	870.29	K	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13732326&Units=SI
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

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid 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