Ethanedione, diphenyl-, dioxime

Other names:	Benzil, dioxime
	Dibenzoyl dioxime
	Diphenyl glyoxime
	«alpha»-Diphenylglyoxime
	«alpha»-Benzil dioxime
	Glyoxime, diphenyl-
	alpha-Benzil, dioxime
	1,2-Diphenyl-1,2-ethanedione dioxime
	NSC 4042
	diphenylethanedione dioxime
Inchi:	InChI=1S/C14H12N2O2/c17-15-13(11-7-3-1-4-8-11)14(16-18)12-9-5-2-6-10-12/h1-10,17
InchiKey:	JJZONEUCDUQVGR-UHFFFAOYSA-N
Formula:	C14H12N2O2
SMILES:	ON=C(C(=NO)c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	240.26
CAS:	23873-81-6

Physical Properties

Property code	Value	Unit	Source
hf	-18.83	kJ/mol	Joback Method
hvap	91.46	kJ/mol	Joback Method
log10ws	-1.73		Crippen Method
logp	2.743		Crippen Method
mcvol	183.700	ml/mol	McGowan Method
pc	2724.01	kPa	Joback Method
tb	910.56	K	Joback Method
tc	1146.06	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=C23873816&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature