Benzophenone, azine

Other names: Methanone, diphenyl-, (diphenylmethylene)hydrazone
Inchi: InChI=1S/C26H20N2/c1-5-13-21(14-6-1)25(22-15-7-2-8-16-22)27-28-26(23-17-9-3-10-18
InchiKey: VQSIVLYYQQCXAF-UHFFFAOYSA-N
Formula: C26H20N2
SMILES: c1ccc(C(=NN=C(c2ccccc2)c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]: 360.45
CAS: 983-79-9

Physical Properties

Property code	Value	Unit	Source
hf	511.01	kJ/mol	Joback Method
hvap	89.36	kJ/mol	Joback Method
log10ws	-6.84		Crippen Method
logp	5.977		Crippen Method
mcvol	293.520	ml/mol	McGowan Method
pc	1490.74	kPa	Joback Method
tb	1054.12	K	Joback Method
tc	1348.20	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=C983799&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