Benzenemethanimine, «alpha»-phenyl-

Other names: Benzophenone imine
Inchi: InChI=1S/C13H11N/c14-13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10,14H
InchiKey: SXZIXHOMFPUIRK-UHFFFAOYSA-N
Formula: C13H11N
SMILES: N=C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 181.23
CAS: 1013-88-3

Physical Properties

Property code	Value	Unit	Source
gf	487.00	kJ/mol	Joback Method
hf	359.74	kJ/mol	Joback Method
hvap	75.70 ± 1.00	kJ/mol	NIST Webbook
log10ws	-4.59		Crippen Method
logp	3.103		Crippen Method
mcvol	152.190	ml/mol	McGowan Method
tb	634.54	K	Joback Method
tf	357.89	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	368.00	J/mol×K	634.54	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
cpg	12.42	J/mol×K	100.12	Joback Method
hvapt	74.20 ± 1.00	kJ/mol	323.00	NIST Webbook
hvapt	62.30	kJ/mol	397.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	425.20	K	1.30	NIST Webbook

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=C1013883&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point