

Benzenamine, N-(phenylmethylene)-

Other names:

Aniline, N-benzylidene-
Benzalaniline
Benzaldehyde anil
Benzylideneaniline
N-Benzalaniline
N-Benzylidenaniline
N-Benzylideneaniline
M4
N-Phenylbenzenemethanimine
N-Phenylbenzylideneimine
Benzylidene-phenyl-amine
N-(Phenylmethylene)benzenamine
NSC 736

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

Aniline, N-benzylidene-
Benzalaniline
Benzaldehyde anil
Benzylideneaniline
N-Benzalaniline
N-Benzylidenaniline
N-Benzylideneaniline
M4
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Benzylidene-phenyl-amine
N-(Phenylmethylene)benzenamine
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InChI=1S/C13H11N/c1-3-7-12(8-4-1)11-14-13-9-5-2-6-10-13/h1-11H

UVEWQKMPXAHFST-UHFFFAOYSA-N

C13H11N

C(=Nc1cccc1)c1cccc1

181.23

538-51-2

Physical Properties

Property code	Value	Unit	Source
chs	-6855.50 ± 7.10	kJ/mol	NIST Webbook
chs	-6872.70 ± 1.10	kJ/mol	NIST Webbook
hf	278.70 ± 2.20	kJ/mol	NIST Webbook
hfs	185.00 ± 2.00	kJ/mol	NIST Webbook
hsub	93.70 ± 0.90	kJ/mol	NIST Webbook
hsub	93.70	kJ/mol	NIST Webbook
hsub	93.70 ± 0.90	kJ/mol	NIST Webbook
hsub	98.10 ± 1.20	kJ/mol	NIST Webbook
hvap	52.40	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
ie	8.25	eV	NIST Webbook
ie	8.27 ± 0.05	eV	NIST Webbook
ie	8.25	eV	NIST Webbook
log10ws	-3.34		Crippen Method
logp	3.437		Crippen Method

mcvol	152.190	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
rinpol	1769.00		NIST Webbook
rinpol	1769.00		NIST Webbook
tb	626.88	K	Joback Method
tc	888.46	K	Joback Method
tf	324.15 ± 2.00	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	20.42	kJ/mol	329.70	NIST Webbook
hsubt	97.40 ± 1.20	kJ/mol	310.00	NIST Webbook
hsubt	85.50 ± 2.10	kJ/mol	293.00	NIST Webbook
hsubt	86.00 ± 2.00	kJ/mol	293.00	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=C538512&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l

logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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