Benzenamine, N-(diphenylmethylene)-

Other names:	Aniline, N-(diphenylmethylene)-
	Benzhydrylidenimine, N-phenyl-
	Benzophenone anil
	N-(«alpha»-Phenylbenzylidene)aniline
	N-(Diphenylmethylene)aniline
	N-Benzhydrylidenaniline
	Benzophenone anilide
	Benzophenone phenylimine
	N-(alpha-Phenylbenzylidene)aniline
	N-(Diphenylmethylene)benzenamine
	N-phenyl benzophenone imine
Inchi:	InChI=1S/C19H15N/c1-4-10-16(11-5-1)19(17-12-6-2-7-13-17)20-18-14-8-3-9-15-18/h1-1
InchiKey:	XVPVLVKWFUYVGT-UHFFFAOYSA-N
Formula:	C19H15N
SMILES:	c1ccc(N=C(c2ccccc2)c2ccccc2)cc1
Mol. weight [g/mol]:	257.33
CAS:	574-45-8

Physical Properties

Property code	Value	Unit	Source
hf	346.53	kJ/mol	Joback Method
hsub	119.70 ± 1.80	kJ/mol	NIST Webbook
hvap	68.11	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.856		Crippen Method
mcvol	212.970	ml/mol	McGowan Method
pc	2165.35	kPa	Joback Method
tb	790.72	K	Joback Method
tc	1070.36	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	29.14	kJ/mol	392.30	NIST Webbook

hsubt	115.50 ± 1.80	kJ/mol	367.50	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=C574458&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	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
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