Benzenamine, N-[(4-nitrophenyl)methylene]-

Other names:	Aniline, N-(p-nitrobenzylidene)-
	(p-Nitrobenzylidene)aniline
	p-Nitrobenzaldehyde anil
	N-(p-Nitrobenzylidene)aniline
	4-Nitrobenzalaniline
	4-Nitrobenzylideneaniline
	N-phenyl 4-nitrobenzaldehyde imine
Inchi:	InChI=1S/C13H10N2O2/c16-15(17)13-8-6-11(7-9-13)10-14-12-4-2-1-3-5-12/h1-10H
InchiKey:	GKSAMSVGROLNRA-UHFFFAOYSA-N
Formula:	C13H10N2O2
SMILES:	O=[N+]([O-])c1ccc(C=Nc2ccccc2)cc1
Mol. weight [g/mol]:	226.23
CAS:	785-80-8

Physical Properties

Property code	Value	Unit	Source
hf	221.40	kJ/mol	Joback Method
hsub	126.00 ± 1.30	kJ/mol	NIST Webbook
hvap	69.65	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.345		Crippen Method
mcvol	169.610	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
tb	783.70	K	Joback Method
tc	1064.35	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	24.56	kJ/mol	347.20	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C785808&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation 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