p-Anisaldehyde, azine

Other names:	Benzaldehyde, 4-methoxy-, [(4-methoxyphenyl)methylene]hydrazone
	p-Anisalazine
	p-Anisaldazine
	p-Methoxybenzaldazine
	p-Methoxybenzaldehyde azine
	Anisalazine
	Anisaldazine
	4,4'-Dimethoxybenzylideneazine
	4-Methoxybenzaldehyde [(4-methoxyphenyl)methylidene]hydrazone
	Benzaldehyde, 4-methoxy-, 2-[(4-methoxyphenyl)methylene]hydrazone
	NSC 1987
Inchi:	InChI=1S/C16H16N2O2/c1-19-15-7-3-13(4-8-15)11-17-18-12-14-5-9-16(20-2)10-6-14/h3
InchiKey:	SVAKQZXLNBBOTG-UHFFFAOYSA-N
Formula:	C16H16N2O2
SMILES:	COc1ccc(C=NN=Cc2ccc(OC)cc2)cc1
Mol. weight [g/mol]:	268.31
CAS:	2299-73-2

Physical Properties

Property code	Value	Unit	Source
hf	-23.45	kJ/mol	Joback Method
hvap	68.53	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.157		Crippen Method
mcvol	211.880	ml/mol	McGowan Method
pc	1786.37	kPa	Joback Method
tb	827.00	K	Joback Method
tc	1076.93	K	Joback Method
tf	442.00 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	29.75	kJ/mol	442.00	NIST Webbook

hfust	29.75	kJ/mol	442.00	NIST Webbook
hfust	29.75	kJ/mol	442.00	NIST Webbook
sfust	67.30	J/mol×K	442.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2299732&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

Legend

hf:	Enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion 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
sfust:	Entropy of fusion at a given temperature
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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