p-Benzanisidide

Other names:	N-Benzoyl-p-anisidine
	Benzamide, N-(p-methoxyphenyl)-
	Benzamide, N-(4-methoxyphenyl)-
	4'-Methoxybenzanilide
	4Methoxybenzanilide
	N-(4-Methoxyphenyl)benzamide
	N-(4-Methoxyphenyl)benzoic acid amide
Inchi:	InChI=1S/C14H13NO2/c1-17-13-9-7-12(8-10-13)15-14(16)11-5-3-2-4-6-11/h2-10H,1H3,(
InchiKey:	KEEBHMMBUBEEOV-UHFFFAOYSA-N
Formula:	C14H13NO2
SMILES:	COc1ccc(NC(=O)c2ccccc2)cc1
Mol. weight [g/mol]:	227.26
CAS:	7472-54-0

Physical Properties

Property code	Value	Unit	Source
gf	137.66	kJ/mol	Joback Method
hf	-62.03	kJ/mol	Joback Method
hfus	27.60	kJ/mol	Joback Method
hvap	67.56	kJ/mol	Joback Method
ie	7.60 ± 0.10	eV	NIST Webbook
log10ws	-3.57		Crippen Method
logp	2.947		Crippen Method
mcvol	178.020	ml/mol	McGowan Method
pc	2902.98	kPa	Joback Method
tb	704.52	K	Joback Method
tc	945.28	K	Joback Method
tf	437.72	K	Joback Method
vc	0.662	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	465.51	J/mol×K	704.52	Joback Method

cpg	479.89	J/mol×K	744.65	Joback Method
cpg	493.10	J/mol×K	784.77	Joback Method
cpg	505.18	J/mol×K	824.90	Joback Method
cpg	516.18	J/mol×K	865.03	Joback Method
cpg	526.15	J/mol×K	905.15	Joback Method
cpg	535.15	J/mol×K	945.28	Joback Method

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=C7472540&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
hfus:	Enthalpy of fusion at standard conditions
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume