5-Phenyl-o-anisidine

Other names: [1,1'-Biphenyl]-3-amine, 4-methoxy-
Inchi: InChI=1S/C13H13NO/c1-15-13-8-7-11(9-12(13)14)10-5-3-2-4-6-10/h2-9H,14H2,1H3
InchiKey: DTYBRSLINXBXMP-UHFFFAOYSA-N
Formula: C13H13NO
SMILES: COc1ccc(-c2ccccc2)cc1N
Mol. weight [g/mol]: 199.25
CAS: 39811-17-1

Physical Properties

Property code	Value	Unit	Source
gf	225.59	kJ/mol	Joback Method
hf	40.04	kJ/mol	Joback Method
hfus	23.12	kJ/mol	Joback Method
hvap	63.46	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	2.944		Crippen Method
mcvol	162.360	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
tb	655.11	K	Joback Method
tc	904.74	K	Joback Method
tf	419.64	K	Joback Method
vc	0.595	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	408.08	J/mol×K	655.11	Joback Method
cpg	423.20	J/mol×K	696.72	Joback Method
cpg	437.17	J/mol×K	738.32	Joback Method
cpg	450.03	J/mol×K	779.93	Joback Method
cpg	461.82	J/mol×K	821.53	Joback Method
cpg	472.59	J/mol×K	863.14	Joback Method
cpg	482.38	J/mol×K	904.74	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39811171&Units=SI

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
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