4-Fluoro-2-methylanisole

Other names: Benzene, 4-fluoro-1-methoxy-2-methyl-
Inchi: InChI=1S/C8H9FO/c1-6-5-7(9)3-4-8(6)10-2/h3-5H,1-2H3
InchiKey: QXOBYWRKNIDHJG-UHFFFAOYSA-N
Formula: C8H9FO
SMILES: COc1ccc(F)cc1C
Mol. weight [g/mol]: 140.15
CAS: 399-54-2

Physical Properties

Property code	Value	Unit	Source
gf	-190.18	kJ/mol	Joback Method
hf	-323.19	kJ/mol	Joback Method
hfus	14.01	kJ/mol	Joback Method
hvap	38.59	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.143		Crippen Method
mcvol	107.460	ml/mol	McGowan Method
pc	3276.53	kPa	Joback Method
tb	440.77	K	Joback Method
tc	640.66	K	Joback Method
tf	254.20	K	Joback Method
vc	0.411	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.03	J/mol×K	440.77	Joback Method
cpg	218.87	J/mol×K	474.08	Joback Method
cpg	229.27	J/mol×K	507.40	Joback Method
cpg	239.23	J/mol×K	540.71	Joback Method
cpg	248.76	J/mol×K	574.03	Joback Method
cpg	257.85	J/mol×K	607.34	Joback Method
cpg	266.50	J/mol×K	640.66	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=C399542&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