5-Fluoro-2-methylaniline

Other names:	2-Amino-4-fluorotoluene
	Benzenamine, 5-fluoro-2-methyl-
	5-fluoro-o-toluidine
Inchi:	InChI=1S/C7H8FN/c1-5-2-3-6(8)4-7(5)9/h2-4H,9H2,1H3
InchiKey:	JLCDTNNLXUMYFQ-UHFFFAOYSA-N
Formula:	C7H8FN
SMILES:	Cc1ccc(F)cc1N
Mol. weight [g/mol]:	125.14
CAS:	367-29-3

Physical Properties

Property code	Value	Unit	Source
gf	-27.15	kJ/mol	Joback Method
hf	-136.54	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	44.60	kJ/mol	Joback Method
log10ws	-1.91		Crippen Method
logp	1.716		Crippen Method
mcvol	97.480	ml/mol	McGowan Method
pc	4021.02	kPa	Joback Method
tb	468.00	K	Joback Method
tc	685.00	K	Joback Method
tf	303.96	K	Joback Method
vc	0.366	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	196.53	J/mol×K	468.00	Joback Method
cpg	206.84	J/mol×K	504.17	Joback Method
cpg	216.58	J/mol×K	540.33	Joback Method
cpg	225.78	J/mol×K	576.50	Joback Method
cpg	234.45	J/mol×K	612.66	Joback Method
cpg	242.60	J/mol×K	648.83	Joback Method

cpg	250.26	J/mol×K	685.00	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	373.00	K	1.30	NIST Webbook

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=C367293&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
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
tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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