

P-FLUORO-N,N-DIMETHYLANILINE

Other names:	N,N-Dimethyl-4-fluoroaniline
Inchi:	InChI=1S/C8H10FN/c1-10(2)8-5-3-7(9)4-6-8/h3-6H,1-2H3
InchiKey:	YJEHCGOJNJUOII-UHFFFAOYSA-N
Formula:	C8H10FN
SMILES:	CN(C)c1ccc(F)cc1
Mol. weight [g/mol]:	139.17

Physical Properties

Property code	Value	Unit	Source
af	0.3970		Cheméo Relay (1.0)
affp	924.80	kJ/mol	NIST Webbook
basg	898.30	kJ/mol	NIST Webbook
gf	35.23	kJ/mol	Joback Method
hf	-128.35	kJ/mol	Cheméo Relay (1.0)
hfus	16.23	kJ/mol	Joback Method
hvap	53.25	kJ/mol	Cheméo Relay (1.0)
ie	7.50	eV	NIST Webbook
log10ws	-2.02		Cheméo Relay (1.0)
logp	1.892		Crippen Method
mcvol	111.570	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
tb	463.38	K	Cheméo Relay (1.0)
tc	665.60	K	Cheméo Relay (1.0)
tf	295.34	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.88	J/mol×K	425.81	Joback Method
cpg	226.68	J/mol×K	458.65	Joback Method
cpg	238.77	J/mol×K	491.49	Joback Method
cpg	250.18	J/mol×K	524.33	Joback Method
cpg	260.93	J/mol×K	557.17	Joback Method
cpg	271.05	J/mol×K	590.01	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C403463&Units=SI>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
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

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