

# 2-Fluoro-5-iodotoluene

<b>Other names:</b>	Benzene, 1-fluoro-4-iodo-2-methyl-
<b>Inchi:</b>	InChI=1S/C7H6FI/c1-5-4-6(9)2-3-7(5)8/h2-4H,1H3
<b>InchiKey:</b>	DYQIYXDSKUUZRI-UHFFFAOYSA-N
<b>Formula:</b>	C7H6FI
<b>SMILES:</b>	Cc1cc(I)ccc1F
<b>Mol. weight [g/mol]:</b>	236.03
<b>CAS:</b>	452-68-6

## Physical Properties

Property code	Value	Unit	Source
gf	-35.48	kJ/mol	Joback Method
hf	-93.46	kJ/mol	Joback Method
hfus	14.63	kJ/mol	Joback Method
hvap	43.33	kJ/mol	Joback Method
log10ws	-3.43		Crippen Method
logp	2.739		Crippen Method
mcvol	113.320	ml/mol	McGowan Method
pc	3646.53	kPa	Joback Method
tb	488.61	K	Joback Method
tc	729.14	K	Joback Method
tf	278.76	K	Joback Method
vc	0.425	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.78	J/mol×K	488.61	Joback Method
cpg	200.25	J/mol×K	528.70	Joback Method
cpg	209.06	J/mol×K	568.79	Joback Method
cpg	217.26	J/mol×K	608.88	Joback Method
cpg	224.87	J/mol×K	648.96	Joback Method
cpg	231.93	J/mol×K	689.05	Joback Method
cpg	238.48	J/mol×K	729.14	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C452686&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C452686&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvpap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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