

4-Methylbenzoyl isothiocyanate

Inchi:	InChI=1S/C9H7NOS/c1-7-2-4-8(5-3-7)9(11)10-6-12/h2-5H,1H3
InchiKey:	RZCAJUGXEPHWJY-UHFFFAOYSA-N
Formula:	C9H7NOS
SMILES:	<chem>Cc1ccc(C(=O)N=C=S)cc1</chem>
Mol. weight [g/mol]:	177.22
CAS:	16794-68-6

Physical Properties

Property code	Value	Unit	Source
hf	167.46	kJ/mol	Joback Method
hvap	55.75	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.238		Crippen Method
mcvol	133.210	ml/mol	McGowan Method
pc	3538.87	kPa	Joback Method
tb	636.80	K	Joback Method
tc	898.72	K	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=C16794686&Units=SI

Legend

hf:	Enthalpy of formation 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

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