

Benzene, 1,4-diisocyanato-

Other names:	Isocyanic acid, p-phenylene ester p-Phenylene diisocyanate p-Phenylene isocyanate 1,4-Diisocyanatobenzene 1,4-Phenylene diisocyanate Phenylene-1,4-diisocyanate 1,4-Benzenediisocyanate
Inchi:	InChI=1S/C8H4N2O2/c11-5-9-7-1-2-8(4-3-7)10-6-12/h1-4H
InchiKey:	ALQLPWJFHRMHIU-UHFFFAOYSA-N
Formula:	C8H4N2O2
SMILES:	O=C=Nc1ccc(N=C=O)cc1
Mol. weight [g/mol]:	160.13
CAS:	104-49-4

Physical Properties

Property code	Value	Unit	Source
chs	-3696.00	kJ/mol	NIST Webbook
hf	5.79	kJ/mol	Joback Method
hvap	55.40	kJ/mol	Joback Method
log10ws	-10.44		Crippen Method
logp	1.621		Crippen Method
mcvol	114.320	ml/mol	McGowan Method
pc	4316.89	kPa	Joback Method
tb	547.44	K	Joback Method
tc	777.94	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	211.70	J/mol×K	298.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104494&Units=SI
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

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
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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