

3,5-Diiodo-L-tyrosine

Other names:

2-amino-3-(4-hydroxy-3,5-diiodophenyl)propanoic acid
3,5-Diiodotyrosine
3,5-Iodo-L-tyrosine
3,5-L-Diiodotyrosine
DIT (amino acid)
L-3,5-Diiodotyrosine
L-Tyrosine, 3,5-diiodo-
NSC 4143
Tyrosine, 3,5-diiodo-
Tyrosine, 3,5-diiodo-, L-

Inchi: InChI=1S/C9H9I2NO3/c10-5-1-4(2-6(11)8(5)13)3-7(12)9(14)15/h1-2,7,13H,3,12H2,(H,14**InchiKey:** NYPYHUZRZVSYKL-SSDOTTSWSA-N**Formula:** C9H9I2NO3**SMILES:** NC(Cc1cc(I)c(O)c(I)c1)C(=O)O**Mol. weight [g/mol]:** 432.98**CAS:** 300-39-0

Physical Properties

Property code	Value	Unit	Source
gf	-122.06	kJ/mol	Joback Method
hf	-275.37	kJ/mol	Joback Method
hfus	34.28	kJ/mol	Joback Method
hvap	104.67	kJ/mol	Joback Method
log10ws	-2.86		Aqueous Solubility Prediction Method
logp	1.556		Crippen Method
mcvol	188.840	ml/mol	McGowan Method
pc	4717.12	kPa	Joback Method
tb	927.00	K	Joback Method
tc	1193.10	K	Joback Method
tf	649.50	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	431.45	J/molxK	927.00	Joback Method
cpg	439.05	J/molxK	971.35	Joback Method
cpg	446.74	J/molxK	1015.70	Joback Method
cpg	454.67	J/molxK	1060.05	Joback Method
cpg	463.00	J/molxK	1104.40	Joback Method
cpg	471.87	J/molxK	1148.75	Joback Method
cpg	481.44	J/molxK	1193.10	Joback Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C300390&Units=SI>

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

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

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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