Idoxuridine

Other names:

1-(2-Deoxy-«beta»-D-ribofuranosyl)-5-iodouracil
1-(2-Deoxy-Â«betaÂ»-D-ribofuranosyl)-5-iodouracil
1«beta»-D-2'-Deoxyribofuranosyl-5-iodouracil
1Â«betaÂ»-D-2'-Deoxyribofuranosyl-5-iodouracil
2'-Deoxy-5-Iodouridine
5-IUDR
5-Iodo-2'-deoxyuridine
5-Iododeoxyuridine
5-Iododesoxyuridine
5-Iodouracil deoxyriboside
Allergan 211
Dendrid
Emanil
Herpe-Gel
Herpesil
Herpidu
Herplex
Herplex Liquifilm
IDU
IDUR
IUDR
Idexur
Idoxene
Idoxuridin
Idu Oculos
Iducher
Idulea
Iduridin
Iduviran
Iododeoxyuridine
Iodoxuridine
Joddeoxiuridin
Kerecid
NSC 39661
Ophthalmadine
SK&F 14287
SKF 14287
Spectanefran
Stoxil
Synmiol

	Uracil, 5-iodo-1-(2-deoxy-«beta»-D-ribofuranosyl)-
	Uracil, 5-iodo-1-(2-deoxy-Â«betaÂ»-D-ribofuranosyl)-
	Uridine, 2'-deoxy-5-iodo-
	Uridine, 5-iodo-2'-deoxy-
	Virudox
Inchi:	InChI=1S/C9H11IN2O5/c10-4-2-12(9(16)11-8(4)15)7-1-5(14)6(3-13)17-7/h2,5-7,13-14H,
InchiKey:	XQFRJNBWHJMXHO-UHFFFAOYSA-N
Formula:	C9H11IN2O5
SMILES:	O=c1[nH]c(=O)n(C2CC(O)C(CO)O2)cc1I
Mol. weight [g/mol]:	354.10
CAS:	54-42-2

Physical Properties

Property code	Value	Unit	Source
log10ws	-0.39		Crippen Method
logp	-1.700		Crippen Method
mcvol	178.180	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	285.34	J/mol×K	298.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	287.61	J/mol×K	303.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	289.88	J/mol×K	308.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	292.15	J/mol×K	313.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine

cps	294.43	J/mol×K	318.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	296.69	J/mol×K	323.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	298.96	J/mol×K	328.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	301.22	J/mol×K	333.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	303.48	J/mol×K	338.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	305.76	J/mol×K	343.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	308.02	J/mol×K	348.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	310.30	J/mol×K	353.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	312.55	J/mol×K	358.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	314.82	J/mol×K	363.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine
cps	317.09	J/mol×K	368.15	Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54422&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Molar Heat Capacities of Some Derivatives of Uridine and 2'-Deoxyuridine:	https://www.doi.org/10.1021/je800243y
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cps:	Solid phase heat capacity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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