

Quinethazone

Other names:

2-Ethyl-7-chloro-1,2,3,4-tetrahydro-4-oxoquinazoline-6-sulfonamide
6-Quinazolinesulfonamide, 7-chloro-2-ethyl-1,2,3,4-tetrahydro-4-oxo-
7-Chloro-2-ethyl-1,2,3,4-tetrahydro-4-oxo-6-quinazolinesulfonamide
7-Chloro-2-ethyl-1,2,3,4-tetrahydro-4-oxo-6-quinzaolinesulfonamide
7-Chloro-2-ethyl-1,2,3,4-tetrahydro-4-oxo-6-sulfamoylquinazoline
7-Chloro-2-ethyl-6-sulfamoyl-1,2,3,4-tetrahydro-4-quinazolinone
7-chloro-2-ethyl-4-oxo-2,3-dihydro-1H-quinazoline-6-sulfonamide
Aquamox
CL 36010
Chinetazone
Hydromox
Idrokin
Quinethazon
Quinethazone Me
Quinethazonum

Inchi:

InChI=1S/C10H12ClN3O3S/c1-2-9-13-7-4-6(11)8(18(12,16)17)3-5(7)10(15)14-9/h3-4,9,11

InchiKey:

AGMMTXLNIQSRCG-UHFFFAOYSA-N

Formula:

C10H12ClN3O3S

SMILES:

CCC1NC(=O)c2cc(S(N)(=O)=O)c(Cl)cc2N1

Mol. weight [g/mol]:

289.74

CAS:

73-49-4

Physical Properties

Property code	Value	Unit	Source
gf	-195.70	kJ/mol	Joback Method
hf	-478.35	kJ/mol	Joback Method
hfus	50.03	kJ/mol	Joback Method
hvap	93.62	kJ/mol	Joback Method
log10ws	-3.29		Aqueous Solubility Prediction Method
log10ws	-3.29		Estimated Solubility Method
logp	0.879		Crippen Method
mccvol	188.980	ml/mol	McGowan Method
pc	4583.94	kPa	Joback Method
rinpol	3000.00		NIST Webbook
rinpol	3000.00		NIST Webbook

tb	803.49	K	Joback Method
tc	1054.38	K	Joback Method
tf	710.88	K	Joback Method
vc	0.722	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	518.68	J/mol×K	803.49	Joback Method
cpg	530.98	J/mol×K	845.30	Joback Method
cpg	541.90	J/mol×K	887.12	Joback Method
cpg	551.40	J/mol×K	928.93	Joback Method
cpg	559.43	J/mol×K	970.75	Joback Method
cpg	565.95	J/mol×K	1012.56	Joback Method
cpg	570.93	J/mol×K	1054.38	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C73494&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
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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