

Chlorpropamide

Other names:

- 1-(4-Chlorobenzenesulfonyl)-3-propylurea
- 1-(p-Chlorobenzenesulfonyl)-3-propylurea
- 1-(p-Chlorophenylsulfonyl)-3-propylurea
- 1-Propyl-3-(p-chlorobenzenesulfonyl)urea
- 1-p-Chlorophenyl-3-(propylsulfonyl)urea
- 4-Chloro-4-((propylamino)carbonyl)benzenesulfonamide
- 4-Chloro-N-[(propylamino)-carbonyl]benzenesulfonamide
- Adiabene
- Asucrol
- Benzenesulfonamide, 4-chloro-N-[(propylamino)carbonyl]-
- Catanil
- Chlorodiabina
- Chloronase
- Chlorpropamid
- Clorpropamide
- Diabaril
- Diabechlor
- Diabenal
- Diabenese
- Diabeneza
- Diabet-pages
- Diabetoral
- Diabinese
- Diamel Ex
- Dynalase
- Glisema
- Insulase
- Meldian
- Melitase
- Mellinese
- Millinese
- N-(4-Chlorophenylsulfonyl)-N'-propylurea
- N-(p-Chlorobenzenesulfonyl)-N'-propylurea
- N-Propyl-N'-(p-chlorobenzenesulfonyl)urea
- N-Propyl-N'-p-chlorophenylsulfonylcarbamide
- NCI-C01752
- NSC 44634
- Oradian
- P-607
- Stabinol

Urea, 1-[(p-chlorophenyl)sulfonyl]-3-propyl-
Urea, 1-propyl-3-(p-chloro-benzenesulfonyl)-
chlorpropamide

Inchi: InChI=1S/C10H13ClN2O3S/c1-2-7-12-10(14)13-17(15,16)9-5-3-8(11)4-6-9/h3-6H,2,7H2
InchiKey: RKGWIWYCVQPMF-UHFFFAOYSA-N
Formula: C10H13ClN2O3S
SMILES: CCCNC(=O)NS(=O)(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 276.74
CAS: 94-20-2

Physical Properties

Property code	Value	Unit	Source
gf	-294.51	kJ/mol	Joback Method
hf	-499.40	kJ/mol	Joback Method
hfus	42.68	kJ/mol	Joback Method
hvap	83.43	kJ/mol	Joback Method
log10ws	-3.41		Aqueous Solubility Prediction Method
logp	1.738		Crippen Method
mcvol	189.860	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
rinpol	1717.00		NIST Webbook
rinpol	1720.00		NIST Webbook
rinpol	1717.00		NIST Webbook
rinpol	1720.00		NIST Webbook
tb	699.28	K	Joback Method
tc	910.67	K	Joback Method
tf	465.13	K	Joback Method
vc	0.739	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	480.19	J/molxK	699.28	Joback Method
cpg	492.17	J/molxK	734.51	Joback Method
cpg	503.23	J/molxK	769.74	Joback Method
cpg	513.38	J/molxK	804.97	Joback Method

cpg	522.64	J/mol×K	840.20	Joback Method
cpg	531.03	J/mol×K	875.44	Joback Method
cpg	538.57	J/mol×K	910.67	Joback Method
hfust	25.70	kJ/mol	401.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C94202&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

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
hfust:	Enthalpy of fusion at a given temperature
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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