1-(P-CHLOROPHENYLSULFONYL)-3-PROPYLURE

Other names:

1-(4-Chlorobenzenesulfonyl)-3-propylurea
1-(p-Chlorobenzenesulfonyl)-3-propylurea
1-(para-chlorophenylsulfonyl)-3-propylurea
1-p-Chlorophenyl-3-(propylsulfonyl)urea
1-propyl-3-(p-chlorobenzenesulfonyl)urea
1-propyl-3-(para-chlorobenzenesulfonyl)urea
4-Chloro-4-((propylamino)carbonyl)benzenesulfonamide
4-Chloro-N-[(propylamino)-carbonyl]benzenesulfonamide
4-chloro-N-(propylcarbamoyl)benzenesulfonamide
Adiaben
Asucrol
Benzenesulfonamide, 4-chloro-N-[(propylamino)carbonyl]-
Catanil
Chlorodiabina
Chloronase
Chloropropamide
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:	RKWGIWYCVPQPMF-UHFFFAOYSA-N
Formula:	C10H13ClN2O3S
SMILES:	CCCNC(=O)NS(=O)(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]:	276.74

Physical Properties

Property code	Value	Unit	Source
hfus	42.68	kJ/mol	Joback Method
log10ws	-3.41		Aqueous Solubility Prediction Method
logp	1.738		Crippen Method
mcvol	189.860	ml/mol	McGowan Method
rinpol	1717.00		NIST Webbook
rinpol	1720.00		NIST Webbook
rinpol	1717.00		NIST Webbook
rinpol	1720.00		NIST Webbook
tf	411.76	K	Cheméo Relay (1.0)

Temperature Dependent Properties

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

Cheméo Relay (1.0, beta):	
Solubility of Tolbutamide and Chlorpropamide in Supercritical Carbon Dioxide:	https://www.doi.org/10.1021/acs.jced.8b00050
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C94202&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Cheméo Relay (1.0):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tf:	Normal melting (fusion) point