

Glyburide

Other names:	1-((p-(2-(5-Chloro-o-anisamido)ethyl)phenyl)sulfonyl)-3-cyclohexyl urea
	1-(p-(2-(5-Chloro-2-methoxybenzamido)ethyl)benzenesulfonyl)-3-cyclohexylurea
	5-Chloro-N-(2-(4-(((cyclohexylamino)carbonyl)amino)sulfonyl)phenyl)ethyl)-2-methoxybenzamide
	5-Chloro-N-[2-[4-[[[(cyclohexylamino)carbonyl]amino]sulfonyl]phenyl]ethyl]-2-methoxybenzamide
	5-Chloro-N-(4-(N-(cyclohexylcarbamoyl)sulfamoyl)phenylethyl)-2-methoxybenzamide
	5-chloro-N-[2-[4-(cyclohexylcarbamoylsulfamoyl)phenyl]ethyl]-2-methoxybenzamide
	Abbenclamide
	Adiab
	Apo-Glibenclamide
	Azuglucon
	Bastiverit
	Benclamin
	Benzamide, 5-chloro-N-[2-[4-[[[(cyclohexylamino)carbonyl]amino]sulfonyl]phenyl]ethyl]-2-methoxy-
	Betanase
	Daonil
	Diabeta
	Diabiphage
	Dibelet
	Duraglucon
	Euglucan
	Euglucon
	Euglucon 5
	Euglykon
	Gilemal
	Glibadone
	Glibenclamide
	Glibenil
	Glibens
	Glibil
	Glimel
	Glimide
	Glucolon
	Glybenzcyclamide
	Glynase
	HB 419
	HD 419
	Humedia
	Libanil
	Maninil
	Med-Glionil

tf	446.98	K	Solubility Determination and Correlation of Glibenclamide in 11 Monosolvents and (Acetone + Acetonitrile) Binary Solvents from 283.15 K to 323.15 K
vc	1.351	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1169.90	J/mol×K	1179.37	Joback Method
cpg	1173.89	J/mol×K	1223.47	Joback Method
cpg	1175.70	J/mol×K	1267.57	Joback Method
cpg	1175.41	J/mol×K	1311.67	Joback Method
cpg	1173.09	J/mol×K	1355.77	Joback Method
cpg	1168.82	J/mol×K	1399.87	Joback Method
cpg	1162.69	J/mol×K	1443.97	Joback Method
hfust	46.30	kJ/mol	446.80	NIST Webbook
hfust	53.35	kJ/mol	450.20	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10238218&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Solubility Determination and Correlation of Glibenclamide in 11 Monosolvents and (Acetone + Acetonitrile) Binary Solvents from 283.15 K to 323.15 K:	https://www.doi.org/10.1021/acs.jced.8b00717

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

Latest version available from:

<https://www.cheméo.com/cid/14-919-6/Glyburide.pdf>

Generated by Cheméo on 2025-12-05 08:14:14.078570325 +0000 UTC m=+4670651.608611025.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.