

Glycyrrhizin

Other names:	(2S,3S,4S,5R,6R)-6-(((2R,3R,4S,5S,6S)-6-carboxy-2-(((6aR,6bR,8aS,11S,14bS)-11-carboxy-1H-indolizino[1,2-b]pyridine-3-carboxamido)-1H-indolizino[1,2-b]pyridine-3-carboxamido)-2-oxoethyl)oxy)hexanoic acid
Inchi:	
InchiKey:	LPLVUJXQOOQHMX-QNEPSFRFSA-N
Formula:	C42H62O16
SMILES:	CC1(C(=O)O)CCC2(C)CCC3(C)C(=CC(=O)C4C5(C)CCC(OC6OC(C(=O)O)C(O)C(O)C6=O)C)C4=CC(=O)O
Mol. weight [g/mol]:	822.94

Physical Properties

Property code	Value	Unit	Source
hfus	96.49	kJ/mol	Joback Method
logp	2.246		Crippen Method
mcvol	599.040	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	9661.64	J/mol×K	2273.53	Joback Method
cpg	28172.42	J/mol×K	3123.70	Joback Method
cpg	66226.52	J/mol×K	3973.87	Joback Method
cpg	131223.55	J/mol×K	4824.03	Joback Method
cpg	230563.10	J/mol×K	5674.20	Joback Method
cpg	371644.77	J/mol×K	6524.37	Joback Method
cpg	561868.15	J/mol×K	7374.54	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
Solubility of Glycyrrhizin in supercritical carbon dioxide with and without cosolvent:	https://www.doi.org/10.1021/je5011328 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>

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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