

ETOMIDATE

Other names:	(+)-Ethyl 1-(«alpha»-methylbenzyl)imidazole-5-carboxylate (+)-Etomidate (R)-(+)-1-(«alpha»-Methylbenzyl)imidazole-5-carboxylic acid ethyl ester 1-(1-Phenylethyl)-1H-imidazole-5-carboxylic acid ethyl ester 1-(«alpha»-Methylbenzyl)-1H-imidazole-5-carboxylic acid ethyl ester 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, ethyl ester, (+)- 1H-Imidazole-5-carboxylic acid, 1-(1-phenylethyl)-, ethyl ester, (R)- 1H-Imidazole-5-carboxylic acid, 1-(«alpha»-methylbenzyl)-, ethyl ester, (+)- Amidate Amidate (pharmaceutical) Ethyl 1-(1-phenylethyl)-1H-imidazole-5-carboxylate, (+)- Hypnomidate Imidazole-5-carboxylic acid, 1-(«alpha»-methylbenzyl)-, ethyl ester, (R)-(+)- R 16659 R-(+)-Ethyl 1-(1-phenylethyl)-1H-imidazole-5-carboxylate Radenarcon d-Etomidate
Inchi:	InChI=1S/C14H16N2O2/c1-3-18-14(17)13-9-15-10-16(13)11(2)12-7-5-4-6-8-12/h4-11H,3
InchiKey:	NPUKDXXFDDZOKR-UHFFFAOYSA-N
Formula:	C14H16N2O2
SMILES:	CCOC(=O)c1cncn1C(C)c1ccccc1
Mol. weight [g/mol]:	244.29

Physical Properties

Property code	Value	Unit	Source
af	0.6201		Cheméo Relay (1.0)
hf	-178.99	kJ/mol	Cheméo Relay (1.0)
hvap	90.75	kJ/mol	Cheméo Relay (1.0)
ie	8.36	eV	Cheméo Relay (1.0)
log10ws	-4.74		Aqueous Solubility Prediction Method
log10ws	-4.74		Estimated Solubility Method
log10ws	-6.74		Aqueous and cosolvent solubility data for drug-like organic compounds
logp	2.669		Crippen Method
mcvol	192.300	ml/mol	McGowan Method

pc	2244.04	kPa	Cheméo Relay (1.0, beta)
rinpol	2008.00		NIST Webbook
tb	612.97	K	Cheméo Relay (1.0)
tc	867.01	K	Cheméo Relay (1.0)
tf	307.19	K	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

Estimated Solubility Method: http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt

Aqueous and cosolvent solubility data for drug-like organic compounds: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C33125972&Units=SI>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

af:	Acentric Factor
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccol:	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

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