

N-Desmethyl-cis-tramadol

Inchi:	InChI=1S/C15H23NO2/c1-16-11-13-6-3-4-9-15(13,17)12-7-5-8-14(10-12)18-2/h5,7-8,10,
InchiKey:	VUMQHLSPUAFKKK-ZFWWWQNUSA-N
Formula:	C15H23NO2
SMILES:	CNCC1CCCCC1(O)c1cccc(OC)c1
Mol. weight [g/mol]:	249.35
CAS:	75377-45-6

Physical Properties

Property code	Value	Unit	Source
gf	37.02	kJ/mol	Joback Method
hf	-309.63	kJ/mol	Joback Method
hfus	25.24	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
log10ws	-3.18		Crippen Method
logp	2.292		Crippen Method
mcvol	209.310	ml/mol	McGowan Method
pc	2410.00	kPa	Joback Method
rinpol	2024.90		NIST Webbook
tb	754.15	K	Joback Method
tc	969.45	K	Joback Method
tf	460.50	K	Joback Method
vc	0.769	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	638.05	J/mol×K	754.15	Joback Method
cpg	655.37	J/mol×K	790.03	Joback Method
cpg	671.91	J/mol×K	825.92	Joback Method
cpg	687.78	J/mol×K	861.80	Joback Method
cpg	703.10	J/mol×K	897.68	Joback Method
cpg	717.98	J/mol×K	933.56	Joback Method
cpg	732.53	J/mol×K	969.45	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C75377456&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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