

Tuaminoheptane

Other names:	(. +/-.)-2-Aminoheptane 1-Methylhexanamine 1-Methylhexylamine 2-Aminoheptane 2-Heptanamine 2-Heptylamine Armeen L-7 DL-2-Aminoheptane Heptamine Heptamine, sympathomimetic Heptedrine Heptin Hexylamine, 1-methyl- NSC 1091 Rineptil Rineptyl Tuamine Tuaminoheptan
Inchi:	InChI=1S/C7H17N/c1-3-4-5-6-7(2)8/h7H,3-6,8H2,1-2H3
InchiKey:	VSRBKQFNFZQRBM-UHFFFAOYSA-N
Formula:	C7H17N
SMILES:	CCCCCC(C)N
Mol. weight [g/mol]:	115.22
CAS:	123-82-0

Physical Properties

Property code	Value	Unit	Source
gf	72.07	kJ/mol	Joback Method
hf	-159.30	kJ/mol	Joback Method
hfus	15.56	kJ/mol	Joback Method
hvap	41.43	kJ/mol	Joback Method
log10ws	-2.30		Crippen Method
logp	1.914		Crippen Method
mcvol	119.470	ml/mol	McGowan Method
pc	3002.44	kPa	Joback Method
rinpol	863.00		NIST Webbook
rinpol	810.00		NIST Webbook

rinpol	807.00		NIST Webbook
rinpol	802.00		NIST Webbook
rinpol	863.00		NIST Webbook
ripol	1158.00		NIST Webbook
ripol	1079.00		NIST Webbook
tb	415.20	K	NIST Webbook
tb	414.15 ± 3.00	K	NIST Webbook
tc	598.00	K	Gas-Liquid Critical Temperatures of Some Alkenes, Amines, and Cyclic Hydrocarbons
tf	236.91	K	
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.75	J/mol×K	431.65	Joback Method
cpg	263.71	J/mol×K	462.11	Joback Method
cpg	276.13	J/mol×K	492.56	Joback Method
cpg	288.03	J/mol×K	523.02	Joback Method
cpg	299.42	J/mol×K	553.48	Joback Method
cpg	310.31	J/mol×K	583.94	Joback Method
cpg	320.73	J/mol×K	614.39	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.56533e+01
Coeff. B	-3.95757e+03
Coeff. C	-5.65620e+01
Temperature range (K), min.	314.12
Temperature range (K), max.	439.24

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Gas-Liquid Critical Temperatures of Some Alkenes, Amines, and Cyclic Hydrocarbons:	https://www.doi.org/10.1021/je0341357
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C123820&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I

Legend

cp_g:	Ideal gas heat capacity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
p_{vap}:	Vapor pressure
ri_{npol}:	Non-polar retention indices
ri_{pol}:	Polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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