Tranexamic Acid

Other names:	Amcha
	Amikapron
	Amstat
	Anvitoff
	Bay 3517
	CL 65336
	Carxamin
	Cyclocapron
	Cyclohexanecarboxylic acid, 4-(aminomethyl)-, trans-
	Cyklokapron
	DV 79
	Emorhalt
	Exacyl
	Frenolyse
	Hexapromin
	Hexatron
	Mastop
	RP 18,429
	Rikavarin
	Rikavarin-S
	Spiramin
	TAMCHA
	Tranex
	Tranexamsaeure
	Tranexan
	Tranhexamic acid
	Transamin
	Transamlon
	Trasamlon
	Ugurol
	trans-1-(Aminomethyl)cyclohexane-4-carboxylic acid
	trans-4-(Aminomethyl)-1-cyclohexanecarboxylic acid
	trans-4-(Aminomethyl)cyclohexane-1-carboxylic acid
	trans-4-(Aminomethyl)cyclohexane-carboxylic acid
	trans-4-(aminomethyl)cyclohexanecarboxylic acid
	trans-Amcha
	trans-p-Aminomethylcyclohexanecarboxylic acid
Inchi:	InChI=1S/C8H15NO2/c9-5-6-1-3-7(4-2-6)8(10)11/h6-7H,1-5,9H2,(H,10,11)/t6-,7-
InchiKey:	GYDJEQRTZSCIOI-LJGSYFOKSA-N
Formula:	C8H15NO2

SMILES: NCC1CCC(C(=O)O)CC1
Mol. weight [g/mol]: 157.21
CAS: 1197-18-8

Physical Properties

Property code	Value	Unit	Source
gf	-166.07	kJ/mol	Joback Method
hf	-405.49	kJ/mol	Joback Method
hfus	20.27	kJ/mol	Joback Method
hvap	67.59	kJ/mol	Joback Method
log10ws	-1.12		Crippen Method
logp	0.836		Crippen Method
mcvol	130.140	ml/mol	McGowan Method
pc	3896.50	kPa	Joback Method
tb	615.90	K	Joback Method
tc	823.68	K	Joback Method
tf	522.15	K	Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of trans-4-(Aminomethyl)cyclohexanecarboxy Acid
vc	0.469	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	357.57	J/mol×K	615.90	Joback Method
cpg	371.32	J/mol×K	650.53	Joback Method
cpg	384.24	J/mol×K	685.16	Joback Method
cpg	396.37	J/mol×K	719.79	Joback Method
cpg	407.72	J/mol×K	754.42	Joback Method
cpg	418.30	J/mol×K	789.05	Joback Method
cpg	428.14	J/mol×K	823.68	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1197188&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Molar Heat Capacities, Thermodynamic Properties, and Thermal Stability of trans-4-(Aminomethyl)cyclohexanecarboxylic Acid:	https://www.doi.org/10.1021/je700072a
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume