10-Aminononadecane

Other names: 10-Aminononadecane
nonadecan-10-amine
Inchi: InChI=1S/C19H41N/c1-3-5-7-9-11-13-15-17-19(20)18-16-14-12-10-8-6-4-2/h19H,3-18,20
InchiKey: DEKCSXCNXGALFT-UHFFFAOYSA-N
Formula: C19H41N
SMILES: CCCCCCCCCC(N)CCCCCCCCC
Mol. weight [g/mol]: 283.54

Physical Properties

Property code	Value	Unit	Source
af	0.8726		Cheméo Relay (1.0)
gf	173.11	kJ/mol	Joback Method
hf	-416.30	kJ/mol	Cheméo Relay (1.0)
hfus	46.64	kJ/mol	Joback Method
hvap	97.69	kJ/mol	Cheméo Relay (1.0)
ie	8.75	eV	Cheméo Relay (1.0)
log10ws	-7.29		Cheméo Relay (1.0)
logp	6.595		Crippen Method
mcvol	288.550	ml/mol	McGowan Method
pc	1128.35	kPa	Joback Method
tb	601.19	K	Cheméo Relay (1.0)
tc	763.04	K	Cheméo Relay (1.0)
tf	310.45	K	Cheméo Relay (1.0)
vc	1.116	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	868.25	J/mol×K	706.21	Joback Method
cpg	888.44	J/mol×K	734.82	Joback Method
cpg	907.71	J/mol×K	763.44	Joback Method
cpg	926.09	J/mol×K	792.05	Joback Method
cpg	943.62	J/mol×K	820.66	Joback Method
cpg	960.33	J/mol×K	849.28	Joback Method

cpg	976.25	J/mol×K	877.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3241234&Units=SI
Joback Method:	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
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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