Cyclopropanecarboxamide, N,N-bis(2-ethylhexyl)-

Inchi: InChI=1S/C20H39NO/c1-5-9-11-17(7-3)15-21(20(22)19-13-14-19)16-18(8-4)12-10-6-2/h1

InchiKey: WGZYLYYPIJIPIH-UHFFFAOYSA-N

Formula: C20H39NO

SMILES: CCCCC(CC)CN(CC(CC)CCCC)C(=O)C1CC1

Mol. weight [g/mol]: 309.53

Physical Properties

Property code	Value	Unit	Source
gf	155.25	kJ/mol	Joback Method
hf	-438.94	kJ/mol	Joback Method
hfus	43.27	kJ/mol	Joback Method
hvap	68.04	kJ/mol	Joback Method
log10ws	-5.71		Crippen Method
logp	5.658		Crippen Method
mcvol	293.350	ml/mol	McGowan Method
pc	1164.04	kPa	Joback Method
rinpol	2042.00		NIST Webbook
rinpol	2042.00		NIST Webbook
tb	729.17	K	Joback Method
tc	907.98	K	Joback Method
tf	385.50	K	Joback Method
vc	1.125	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	905.39	J/mol×K	729.17	Joback Method
cpg	925.92	J/mol×K	758.97	Joback Method
cpg	945.43	J/mol×K	788.77	Joback Method
cpg	963.95	J/mol×K	818.57	Joback Method
cpg	981.57	J/mol×K	848.38	Joback Method
cpg	998.32	J/mol×K	878.18	Joback Method
cpg	1014.26	J/mol×K	907.98	Joback Method

Sources

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=U308579&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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