

1-Ethyl-2-(4-methylpentyl)cyclopentane

Inchi:	InChI=1S/C13H26/c1-4-12-8-6-10-13(12)9-5-7-11(2)3/h11-13H,4-10H2,1-3H3
InchiKey:	HOUQCRCJPOAKSY-UHFFFAOYSA-N
Formula:	C13H26
SMILES:	CCC1CCCC1CCCC(C)C
Mol. weight [g/mol]:	182.35
CAS:	219726-60-0

Physical Properties

Property code	Value	Unit	Source
gf	84.98	kJ/mol	Joback Method
hf	-276.79	kJ/mol	Joback Method
hfus	20.91	kJ/mol	Joback Method
hvap	44.09	kJ/mol	Joback Method
log10ws	-4.43		Crippen Method
logp	4.639		Crippen Method
mcvol	183.170	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
tb	507.01	K	Joback Method
tc	694.07	K	Joback Method
tf	227.93	K	Joback Method
vc	0.698	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.39	J/molxK	507.01	Joback Method
cpg	465.70	J/molxK	538.19	Joback Method
cpg	486.02	J/molxK	569.36	Joback Method
cpg	505.38	J/molxK	600.54	Joback Method
cpg	523.80	J/molxK	631.72	Joback Method
cpg	541.32	J/molxK	662.89	Joback Method
cpg	557.96	J/molxK	694.07	Joback Method
dvisc	0.0053358	Paxs	227.93	Joback Method
dvisc	0.0021291	Paxs	274.44	Joback Method

dvisc	0.0011088	Paxs	320.96	Joback Method
dvisc	0.0006811	Paxs	367.47	Joback Method
dvisc	0.0004668	Paxs	413.98	Joback Method
dvisc	0.0003453	Paxs	460.50	Joback Method
dvisc	0.0002700	Paxs	507.01	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C219726600&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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