

Carbonic acid, (1R)-(-)-menthyl pentadecyl ester

Inchi:	InChI=1S/C26H50O3/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-20-28-26(27)29-25-21-24(2
InchiKey:	PAXGVXUQCDBNO-UHFFFAOYSA-N
Formula:	C26H50O3
SMILES:	CCCCCCCCCCCCCCCCOC(=O)OC1CC(C(C)C)CCC1C
Mol. weight [g/mol]:	410.67

Physical Properties

Property code	Value	Unit	Source
gf	-164.29	kJ/mol	Joback Method
hf	-948.63	kJ/mol	Joback Method
hfus	57.52	kJ/mol	Joback Method
hvap	84.46	kJ/mol	Joback Method
log10ws	-8.92		Crippen Method
logp	8.692		Crippen Method
mvol	379.650	ml/mol	McGowan Method
pc	798.89	kPa	Joback Method
rinpol	2814.00		NIST Webbook
rinpol	2814.00		NIST Webbook
tb	902.76	K	Joback Method
tc	1105.30	K	Joback Method
tf	461.07	K	Joback Method
vc	1.458	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1325.69	J/molxK	902.76	Joback Method
cpg	1420.94	J/molxK	1071.54	Joback Method
cpg	1405.19	J/molxK	1037.78	Joback Method
cpg	1387.83	J/molxK	1004.03	Joback Method
cpg	1368.81	J/molxK	970.27	Joback Method
cpg	1348.10	J/molxK	936.52	Joback Method
cpg	1435.09	J/molxK	1105.30	Joback Method
dvisc	0.0000375	Paxs	902.76	Joback Method

dvisc	0.0000499	Paxs	829.14	Joback Method
dvisc	0.0000703	Paxs	755.53	Joback Method
dvisc	0.0001066	Paxs	681.91	Joback Method
dvisc	0.0001788	Paxs	608.30	Joback Method
dvisc	0.0003460	Paxs	534.69	Joback Method
dvisc	0.0008264	Paxs	461.07	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U392443&Units=SI
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

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

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