

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

Inchi:	InChI=1S/C15H28O3/c1-10(2)9-17-15(16)18-14-8-13(11(3)4)7-6-12(14)5/h10-14H,6-9H2
InchiKey:	PGHOXPDMVFUFQE-UHFFFAOYSA-N
Formula:	C15H28O3
SMILES:	CC(C)COC(=O)OC1CC(C(C)C)CCC1C
Mol. weight [g/mol]:	256.38

Physical Properties

Property code	Value	Unit	Source
gf	-259.35	kJ/mol	Joback Method
hf	-726.87	kJ/mol	Joback Method
hfus	25.51	kJ/mol	Joback Method
hvap	59.59	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	4.256		Crippen Method
mvol	224.660	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	1598.00		NIST Webbook
rinpol	1598.00		NIST Webbook
tb	650.64	K	Joback Method
tc	847.76	K	Joback Method
tf	322.10	K	Joback Method
vc	0.837	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.07	J/molxK	650.64	Joback Method
cpg	744.82	J/molxK	814.91	Joback Method
cpg	727.94	J/molxK	782.06	Joback Method
cpg	709.93	J/molxK	749.20	Joback Method
cpg	690.78	J/molxK	716.35	Joback Method
cpg	670.49	J/molxK	683.49	Joback Method
cpg	760.56	J/molxK	847.76	Joback Method
dvisc	0.0001376	Paxs	650.64	Joback Method

dvisc	0.0001805	Paxs	595.88	Joback Method
dvisc	0.0002499	Paxs	541.13	Joback Method
dvisc	0.0003725	Paxs	486.37	Joback Method
dvisc	0.0006142	Paxs	431.61	Joback Method
dvisc	0.0011714	Paxs	376.86	Joback Method
dvisc	0.0027824	Paxs	322.10	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=U392448&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ 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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