

Cyclopropanecarboxylic acid, trans-2-phenyl-, cyclohexylmethyl ester

Inchi:	InChI=1S/C17H22O2/c18-17(19-12-13-7-3-1-4-8-13)16-11-15(16)14-9-5-2-6-10-14/h2,5-
InchiKey:	YMOFCEPOIRCQUY-UHFFFAOYSA-N
Formula:	C17H22O2
SMILES:	O=C(OCC1CCCCC1)C1CC1c1ccccc1
Mol. weight [g/mol]:	258.36

Physical Properties

Property code	Value	Unit	Source
gf	48.24	kJ/mol	Joback Method
hf	-295.70	kJ/mol	Joback Method
hfus	27.65	kJ/mol	Joback Method
hvap	64.90	kJ/mol	Joback Method
log10ws	-4.17		Crippen Method
logp	3.914		Crippen Method
mcvol	212.350	ml/mol	McGowan Method
pc	2121.68	kPa	Joback Method
rinpol	2116.00		NIST Webbook
rinpol	2116.00		NIST Webbook
tb	712.95	K	Joback Method
tc	949.58	K	Joback Method
tf	401.01	K	Joback Method
vc	0.792	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	636.83	J/molxK	712.95	Joback Method
cpg	727.00	J/molxK	910.14	Joback Method
cpg	711.86	J/molxK	870.70	Joback Method
cpg	695.36	J/molxK	831.26	Joback Method
cpg	677.42	J/molxK	791.83	Joback Method
cpg	657.93	J/molxK	752.39	Joback Method
cpg	740.85	J/molxK	949.58	Joback Method
dvisc	0.0003827	Paxs	712.95	Joback Method

dvisc	0.0004603	Paxs	660.96	Joback Method
dvisc	0.0005714	Paxs	608.97	Joback Method
dvisc	0.0007385	Paxs	556.98	Joback Method
dvisc	0.0010063	Paxs	504.99	Joback Method
dvisc	0.0014720	Paxs	453.00	Joback Method
dvisc	0.0023764	Paxs	401.01	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=U406842&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
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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