

Cyclopropanecarboxylic acid, trans-2-phenyl-, naphth-2-ylmethyl ester

Inchi:	InChI=1S/C21H18O2/c22-21(20-13-19(20)17-7-2-1-3-8-17)23-14-15-10-11-16-6-4-5-9-18
InchiKey:	RANFTECVFQGXM-F-UHFFFAOYSA-N
Formula:	C ₂₁ H ₁₈ O ₂
SMILES:	O=C(OCc1ccc2ccccc2c1)C1CC1c1cccc1
Mol. weight [g/mol]:	302.37

Physical Properties

Property code	Value	Unit	Source
gf	266.90	kJ/mol	Joback Method
hf	-16.45	kJ/mol	Joback Method
hfus	36.85	kJ/mol	Joback Method
hvap	77.95	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	4.687		Crippen Method
mvol	236.350	ml/mol	McGowan Method
pc	2068.00	kPa	Joback Method
rinpol	2787.00		NIST Webbook
rinpol	2787.00		NIST Webbook
tb	835.56	K	Joback Method
tc	1086.65	K	Joback Method
tf	510.35	K	Joback Method
vc	0.897	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	708.94	J/molxK	835.56	Joback Method
cpg	725.08	J/molxK	877.41	Joback Method
cpg	739.98	J/molxK	919.26	Joback Method
cpg	753.79	J/molxK	961.10	Joback Method
cpg	766.66	J/molxK	1002.95	Joback Method
cpg	778.75	J/molxK	1044.80	Joback Method
cpg	790.21	J/molxK	1086.65	Joback Method
dvisc	0.0017616	Paxs	510.35	Joback Method

dvisc	0.0013011	Paxs	564.55	Joback Method
dvisc	0.0010134	Paxs	618.75	Joback Method
dvisc	0.0008218	Paxs	672.95	Joback Method
dvisc	0.0006875	Paxs	727.16	Joback Method
dvisc	0.0005896	Paxs	781.36	Joback Method
dvisc	0.0005158	Paxs	835.56	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=U406850&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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