Cyclopropanecarboxylic acid, trans-2-phenyl-, 4-benzyloxyphenyl ester

Inchi: InChI=1S/C23H20O3/c24-23(22-15-21(22)18-9-5-2-6-10-18)26-20-13-11-19(12-14-20)25

InchiKey: UXCUMQHSHUJPBT-UHFFFAOYSA-N

Formula: C23H20O3

SMILES: O=C(Oc1ccc(OCc2ccccc2)cc1)C1CC1c1ccccc1

Mol. weight [g/mol]: 344.40

Physical Properties

Property code	Value	Unit	Source
gf	184.50	kJ/mol	Joback Method
hf	-144.49	kJ/mol	Joback Method
hfus	40.24	kJ/mol	Joback Method
hvap	85.45	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	4.975		Crippen Method
mcvol	266.100	ml/mol	McGowan Method
pc	1854.71	kPa	Joback Method
rinpol	2908.00		NIST Webbook
rinpol	2908.00		NIST Webbook
tb	911.44	K	Joback Method
tc	1164.99	K	Joback Method
tf	548.84	K	Joback Method
vc	0.998	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	829.45	J/mol×K	911.44	Joback Method
cpg	892.09	J/mol×K	1122.73	Joback Method
cpg	882.05	J/mol×K	1080.47	Joback Method
cpg	870.88	J/mol×K	1038.21	Joback Method
cpg	858.48	J/mol×K	995.96	Joback Method
cpg	844.71	J/mol×K	953.70	Joback Method
cpg	901.13	J/mol×K	1164.99	Joback Method
dvisc	0.0001689	Pa×s	911.44	Joback Method

dvisc	0.0002013	Pa×s	851.01	Joback Method
dvisc	0.0002464	Pa×s	790.57	Joback Method
dvisc	0.0003119	Pa×s	730.14	Joback Method
dvisc	0.0004120	Pa×s	669.71	Joback Method
dvisc	0.0005751	Pa×s	609.27	Joback Method
dvisc	0.0008639	Pa×s	548.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U406886&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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