Dodecyl trimethylsilyl phthalate

Other names: 1,2-Benzenedicarboxylic acid, dodecyl trimethylsilyl ester
Inchi: InChI=1S/C23H38O4Si/c1-5-6-7-8-9-10-11-12-13-16-19-26-22(24)20-17-14-15-18-21(20
InchiKey: SPKNVVKDSILZEX-UHFFFAOYSA-N
Formula: C23H38O4Si
SMILES: CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)O[Si](C)(C)C
Mol. weight [g/mol]: 406.63

Physical Properties

Property code	Value	Unit	Source
af	1.0855		Cheméo Relay (1.0)
hf	-997.32	kJ/mol	Cheméo Relay (1.0)
hvap	106.49	kJ/mol	Cheméo Relay (1.0)
log10ws	-6.61		Cheméo Relay (1.0)
logp	6.756		Crippen Method
pc	509.29	kPa	Cheméo Relay (1.0, beta)
rinpol	2618.00		NIST Webbook
rinpol	2618.00		NIST Webbook
tb	647.70	K	Cheméo Relay (1.0)
tc	849.60	K	Cheméo Relay (1.0)
tf	267.67	K	Cheméo Relay (1.0)
vc	1.340	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U373703&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):

Legend

af:	Acentric Factor
hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:
https://www.chemeo.com/cid/99-204-6/Dodecyl-trimethylsilyl-phthalate.pdf
Generated by Cheméo on 2026-11-07 01:21:48.240246172 +0000 UTC m=+169684.472995391.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.