

poly(ethylene terephthalate)

InchiKey: MJFPJWOTLYKBHC-UHFFFAOYSA-N
Formula: C₉H₆*2O₄
SMILES: *COC(=O)c1ccc(C(=O)O*)cc1
Mol. weight [g/mol]: 178.14

Physical Properties

Property code	Value	Unit	Source
af	0.7348		Cheméo Relay (1.0)
hvap	79.48	kJ/mol	Cheméo Relay (1.0)
ie	9.41	eV	Cheméo Relay (1.0)
log10ws	-3.18		Cheméo Relay (1.0)
pc	2556.09	kPa	Cheméo Relay (1.0, beta)
tb	547.85	K	Cheméo Relay (1.0)
tc	735.87	K	Cheméo Relay (1.0)
tf	383.82	K	Cheméo Relay (1.0)

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C25038599&Units=SI>
Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):

Legend

af: Acentric Factor
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tc: Critical Temperature

tf: Normal melting (fusion) point

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<https://www.cheméo.com/cid/120-873-9/poly-ethylene-terephthalate.pdf>

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