

2,4,6-trimethyl-2,4,6-tris(3,3,3-trifluoropropyl)-1,3,5-trimethylcyclotrisiloxane

Other names: 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane
1,3,5-tris(3,3,3-trifluoropropyl)-1,3,5-trimethylcyclotrisiloxane

Inchi: InChI=1S/C12H21F9O3Si3/c1-25(7-4-10(13,14)15)22-26(2,8-5-11(16,17)18)24-27(3,23-25)28-29(12,13)30-31(9,10)32-33(6,7)34-35(11,12)36-37(14,15)38-39(16,17)40-41(18,19)42-43(20,21)44-45(22,23)46-47(24,25)48-49(26,27)50-51(28,29)52-53(30,31)54-55(32,33)56-57(34,35)58-59(36,37)60-61(38,39)62-63(40,41)64-65(42,43)66-67(44,45)68-69(46,47)70-71(48,49)72-73(50,51)74-75(52,53)76-77(54,55)78-79(56,57)80-81(58,59)82-83(60,61)84-85(62,63)86-87(64,65)88-89(66,67)90-91(68,69)92-93(70,71)94-95(72,73)96-97(74,75)98-99(76,77)100-101(78,79)102-103(80,81)104-105(82,83)106-107(84,85)108-109(86,87)110-111(88,89)112-113(90,91)114-115(92,93)116-117(94,95)118-119(96,97)120-121(98,99)122-123(100,101)124-125(102,103)126-127(104,105)128-129(106,107)130-131(108,109)132-133(110,111)134-135(112,113)136-137(114,115)138-139(116,117)140-141(118,119)142-143(120,121)144-145(122,123)146-147(124,125)148-149(126,127)150-151(128,129)152-153(130,131)154-155(132,133)156-157(134,135)158-159(136,137)160-161(138,139)162-163(140,141)164-165(142,143)166-167(144,145)168-169(146,147)170-171(148,149)172-173(150,151)174-175(152,153)176-177(154,155)178-179(156,157)180-181(158,159)182-183(160,161)184-185(162,163)186-187(164,165)188-189(166,167)190-191(168,169)192-193(170,171)194-195(172,173)196-197(174,175)198-199(176,177)200-201(178,179)202-203(180,181)204-205(182,183)206-207(184,185)208-209(186,187)210-211(188,189)212-213(190,191)214-215(192,193)216-217(194,195)218-219(196,197)220-221(198,199)222-223(200,201)224-225(202,203)226-227(204,205)228-229(206,207)230-231(208,209)232-233(210,211)234-235(212,213)236-237(214,215)238-239(216,217)240-241(218,219)242-243(220,221)244-245(222,223)246-247(224,225)248-249(226,227)250-251(228,229)252-253(230,231)254-255(232,233)256-257(234,235)258-259(236,237)260-261(238,239)262-263(240,241)264-265(242,243)266-267(244,245)268-269(246,247)270-271(248,249)272-273(250,251)274-275(252,253)276-277(254,255)278-279(256,257)280-281(258,259)282-283(260,261)284-285(262,263)286-287(264,265)288-289(266,267)290-291(268,269)292-293(270,271)294-295(272,273)296-297(274,275)298-299(276,277)300-301(278,279)302-303(280,281)304-305(282,283)306-307(284,285)308-309(286,287)310-311(288,289)312-313(290,291)314-315(292,293)316-317(294,295)318-319(296,297)320-321(298,299)322-323(300,301)324-325(302,303)326-327(304,305)328-329(306,307)330-331(308,309)332-333(310,311)334-335(312,313)336-337(314,315)338-339(316,317)340-341(318,319)342-343(320,321)344-345(322,323)346-347(324,325)348-349(326,327)350-351(328,329)352-353(330,331)354-355(332,333)356-357(334,335)358-359(336,337)360-361(338,339)362-363(340,341)364-365(342,343)366-367(344,345)368-369(346,347)370-371(348,349)372-373(350,351)374-375(352,353)376-377(354,355)378-379(356,357)380-381(358,359)382-383(360,361)384-385(362,363)386-387(364,365)388-389(366,367)390-391(368,369)392-393(370,371)394-395(372,373)396-397(374,375)398-399(376,377)400-401(378,379)402-403(380,381)404-405(382,383)406-407(384,385)408-409(386,387)410-411(388,389)412-413(390,391)414-415(392,393)416-417(394,395)418-419(396,397)420-421(398,399)422-423(400,401)424-425(402,403)426-427(404,405)428-429(406,407)430-431(408,409)432-433(410,411)434-435(412,413)436-437(414,415)438-439(416,417)440-441(418,419)442-443(420,421)444-445(422,423)446-447(424,425)448-449(426,427)450-451(428,429)452-453(430,431)454-455(432,433)456-457(434,435)458-459(436,437)460-461(438,439)462-463(440,441)464-465(442,443)466-467(444,445)468-469(446,447)470-471(448,449)472-473(450,451)474-475(452,453)476-477(454,455)478-479(456,457)480-481(458,459)482-483(460,461)484-485(462,463)486-487(464,465)488-489(466,467)490-491(468,469)492-493(470,471)494-495(472,473)496-497(474,475)498-499(476,477)500-501(478,479)502-503(480,481)504-505(482,483)506-507(484,485)508-509(486,487)510-511(488,489)512-513(490,491)514-515(492,493)516-517(494,495)518-519(496,497)520-521(498,499)522-523(500,501)524-525(502,503)526-527(504,505)528-529(506,507)530-531(508,509)532-533(510,511)534-535(512,513)536-537(514,515)538-539(516,517)540-541(518,519)542-543(520,521)544-545(522,523)546-547(524,525)548-549(526,527)550-551(528,529)552-553(530,531)554-555(532,533)556-557(534,535)558-559(536,537)560-561(538,539)562-563(540,541)564-565(542,543)566-567(544,545)568-569(546,547)570-571(548,549)572-573(550,551)574-575(552,553)576-577(554,555)578-579(556,557)580-581(558,559)582-583(560,561)584-585(562,563)586-587(564,565)588-589(566,567)590-591(568,569)592-593(570,571)594-595(572,573)596-597(574,575)598-599(576,577)600-601(578,579)602-603(580,581)604-605(582,583)606-607(584,585)608-609(586,587)610-611(588,589)612-613(590,591)614-615(592,593)616-617(594,595)618-619(596,597)620-621(598,599)622-623(600,601)624-625(602,603)626-627(604,605)628-629(606,607)630-631(608,609)632-633(610,611)634-635(612,613)636-637(614,615)638-639(616,617)640-641(618,619)642-643(620,621)644-645(622,623)646-647(624,625)648-649(626,627)650-651(628,629)652-653(630,631)654-655(632,633)656-657(634,635)658-659(636,637)660-661(638,639)662-663(640,64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rfi	1.35609	318.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rfi	1.35808	313.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rfi	1.36011	308.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rfi	1.35211	328.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures
rfi	1.35410	323.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures
rfi	1.35616	318.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures
rfi	1.35816	313.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures

rfi	1.35608		318.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rhoI	1216.99	kg/m3	323.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rhoI	1223.55	kg/m3	318.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rhoI	1230.05	kg/m3	313.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rhoI	1236.63	kg/m3	308.15	The physicochemical properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various aromatic hydrocarbons at T = (308.15 to 323.15) K
rhoI	1210.19	kg/m3	328.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures
rhoI	1216.77	kg/m3	323.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl)cyclotrisiloxane with various organosilicon compounds at different temperatures

rhoI	1223.32	kg/m3	318.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhoI	1229.89	kg/m3	313.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures
rhoI	1236.44	kg/m3	308.15	The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various organosilicon compounds at different temperatures: <https://www.doi.org/10.1016/j.jct.2014.09.010>

The mixing properties of 1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane with various aromatic hydrocarbons at different temperatures: <https://www.doi.org/10.1016/j.jct.2015.12.025>

1,3,5-trimethyl-1,3,5-tris(3,3,3-trifluoropropyl) cyclotrisiloxane
with various aromatic hydrocarbons at
T = (308.15 to 323.15) K:

Legend

log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
rfi: Refractive Index
rhoI: Liquid Density

Latest version available from:

<https://www.chemeo.com/cid/102-894-6/2-4-6-trimethyl-2-4-6-tris-3-3-3-trifluoropropyl-1-3-5-2-4-6-trioxatrisilinane.pdf>

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